



# GENEMEDI

Innovation In Gene Therapy & Biologics

## **Virus Premade Products**

### **AAV, Adenovirus, Lentivirus**

Vector system, Pre-made CRISPR/Cas9, Cre-loxP system,  
Optogenetics, LC3 Autophagy Flux Biosensor,  
Premade Control Virus (GFP, RFP, luciferase),  
Promise-ORF™ Pre-made lentivirus & adenovirus & AAV

# Premade products for AAV, Lentivirus, Adenovirus

- 1 AAV vector system & AAV expression vectors
- 2 Lentivirus vector system & Lentivirus expression vectors
- 3 Premade Adenovirus & Adenovirus expression vectors
- 4 CRISPR/Cas9 premade products
- 5 Cre/loxP tools in AAV, adenoviral and lentiviral vector
- 6 Premade LC3 Autophagy Biosensors Products
- 7 Pre-made biosensors & Organelle Bioprobe in adenovirus & AAV vector
- 8 Optogenetics Adeno Associated Virus (AAV) premade products
- 9 Pre-made control lentiviral vector particles
- 10 Premade AAV Control Virus (GFP, RFP, luciferase)
- 11 Pre-made control adenovirus vector (ad5) particles
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| Product Name      | Contents  |
|-------------------|---|
| AAV vector system | 1. AAV Rep-Cap Plasmid, 5ug                           |
|                   | 2. AAV Helper Plasmid, 5ug                            |
|                   | 3. pGMAAV-CMV-MCS-3flag-T2A-ZsGreen (P-AAVV-B01), 5ug |

GeneMedi's AAV Rep-Cap plasmids is including AAV1, AAV2, AAV2 variant (Y444F), AAV2 variant (Y272F, Y444F, Y500F, Y730F), AAV2 variant (Y444F, Y730F, Y500F, Y272F, Y704F, Y252F), AAV2 variant(AAV2.7m8), AAV5, AAV6, AAV8, AAV8-1m, AAV8-2m, AAV8 variant (Y733F, Y447F, Y275), AAV9, AAV-Rh.10, AAV-DJ, AAV-DJ/8, AAV-Retro (Retrograde), AAV9-PHP.B, AAV9-PHP.A, AAV9-PHP.eB, AAV9-PHP.S

| Cat.No     | Expression            | Name of Vectors                    | Promoter | Reporter | Cre-dependent | TAG (unfusion)    |
|------------|-----------------------|------------------------------------|----------|----------|---------------|-------------------|
| P-AAVV-B01 | overexpression        | pGMAAV-CMV-MCS-3flag-T2A-ZsGreen   | CMV      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B02 | overexpression        | pGMAAV-CMV-MCS-3flag-P2A-Zsgreen   | CMV      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B03 | overexpression        | pGMAAV-CMV-MCS-3flag-EF1-ZsGreen   | CMV      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B04 | overexpression        | pGMAAV-CAG-MCS-T2A-ZsGreen         | CAG      | ZsGreen  | No            | null              |
| P-AAVV-B05 | overexpression        | pGMAAV-CAG-MCS-3flag-T2A-ZsGreen   | CAG      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B06 | overexpression        | pGMAAV-CAG-MCS-T2A-mCherry         | CAG      | mCherry  | No            | null              |
| P-AAVV-B07 | overexpression        | pGMAAV-CAG-DIO-MCS-T2A-ZsGreen     | CAG      | ZsGreen  | Yes           | null              |
| P-AAVV-B08 | overexpression        | pGMAAV-CAG-DIO-MCS-T2A-mCherry     | CAG      | mCherry  | Yes           | null              |
| P-AAVV-B09 | overexpression        | pGMAAV-CMV-DIO-MCS-T2A-ZsGreen     | CMV      | ZsGreen  | Yes           | null              |
| P-AAVV-B10 | overexpression        | pGMAAV-hSyn-DIO-MCS-ZsGreen        | hSyn     | ZsGreen  | Yes           | null              |
| P-AAVV-B11 | overexpression        | pGMAAV-hSyn-DIO-MCS-mCherry        | hSyn     | mCherry  | Yes           | null              |
| P-AAVV-B12 | overexpression        | pGMAAV-hSyn-MCS-T2A-ZsGreen        | hSyn     | ZsGreen  | No            | null              |
| P-AAVV-B13 | overexpression        | pGMAAV-hSyn-MCS-T2A-mCherry        | hSyn     | mCherry  | No            | null              |
| P-AAVV-B14 | overexpression        | pGMAAV-CamKII-MCS-T2A-ZsGreen      | CamKII   | ZsGreen  | No            | null              |
| P-AAVV-B15 | overexpression        | pGMAAV-CamKII-MCS-T2A-mCherry      | CamKII   | mCherry  | No            | null              |
| P-AAVV-B16 | overexpression        | pGMAAV-GFAP-MCS-T2A-EGFP           | GFAP     | EGFP     | No            | null              |
| P-AAVV-B17 | overexpression        | pGMAAV-cTNT-MCS-ZsGreen            | cTNT     | ZsGreen  | No            | null              |
| P-AAVV-B18 | overexpression        | pGMAAV-GFAP-EGFP                   | GFAP     | EGFP     | No            | null              |
| P-AAVV-B19 | overexpression        | pGMAAV-TBG-MCS-P2A-ZsGreen         | TBG      | ZsGreen  | No            | null              |
| P-AAVV-B20 | shRNA for RNAi        | pGMAAV-U6-MCS-CMV-mCherry          | U6       | mCherry  | No            | null              |
| P-AAVV-B21 | shRNA for RNAi        | pGMAAV-U6-MCS-CMV-EGFP             | U6       | EGFP     | No            | null              |
| P-AAVV-B22 | shRNA for RNAi        | pGMAAV-U6-MCS-WPRE                 | U6       | null     | No            | null              |
| P-AAVV-B23 | Cas9/gRNAfor Konckout | pGMAAV-CMV-Sacas9-U6-gRNA          | CMV      | null     | No            | null              |
| P-AAVV-B24 | gRNAfor Konckout      | pscAAV-U6-BB-chemeric-sgRNA        | U6       | null     | No            | null              |
| P-AAVV-B25 | overexpression        | pGMAAV-CMV-MCS-EF1-mCherry         | CMV      | mCherry  | No            | null              |
| P-AAVV-B26 | overexpression        | pGMAAV-CMV-MCS-T2A-mCherry         | CMV      | mCherry  | No            | null              |
| P-AAVV-B27 | overexpression        | pGMAAV-CMV-DIO-MCS                 | CMV      | null     | Yes           | null              |
| P-AAVV-B28 | overexpression        | pGMAAV-CMV-DIO-MCS-T2Am-ZsGreen    | CMV      | ZsGreen  | Yes           | null              |
| P-AAVV-B29 | overexpression        | pGMAAV-CMV-DIO-ZsGreen-MCS         | CMV      | ZsGreen  | Yes           | null              |
| P-AAVV-B30 | overexpression        | pGMAAV-CAG-DIO-MCS                 | CAG      | null     | Yes           | null              |
| P-AAVV-B31 | overexpression        | pGMAAV-hSyn-MCS-T2Am-mCherry       | hSyn     | mCherry  | No            | null              |
| P-AAVV-B32 | overexpression        | pGMAAV-hSyn-ZsGreen                | hSyn     | ZsGreen  | No            | null              |
| P-AAVV-B33 | overexpression        | pGMAAV-cTNT-MCS-P2A-EGFP           | cTNT     | EGFP     | No            | null              |
| P-AAVV-B34 | overexpression        | pGMAAV-TBG-MCS-P2A-mCherry         | TBG      | mCherry  | No            | null              |
| P-AAVV-B35 | shRNA for RNAi        | pGMAAV-U6-MCS-CMV-LUCi             | U6       | null     | No            | null              |
| P-AAVV-B36 | shRNA for RNAi        | pGMAAV-U6-MCS-CMV-ZsGreen          | U6       | ZsGreen  | No            | null              |
| P-AAVV-B37 | overexpression        | pGMAAV-CTNT-MCS-CMV-ZsGreen        | cTNT     | ZsGreen  | No            | null              |
| P-AAVV-B38 | for Konckout          | pscAAV-U6-BB-sgRNA-CMV-mCherry-new | U6       | mCherry  | No            | null              |

| Cat.No     | Expression        | Name of Vectors                         | Promoter | Reporter | Cre-dependent | TAG (unfusion)    |
|------------|-------------------|---|----------|----------|---------------|-------------------|
| P-AAVV-B39 | for Konckout      | pscAAV-U6-BB-sgRNA-CMV-EGFP-new         | U6       | EGFP     | No            | null              |
| P-AAVV-B40 | overexpressioncre | pGMAAV-cre-ZsGreen                      | CMV      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B41 | overexpressioncre | pGMAAV-hSyn-cre                         | hSyn     | null     | No            | null              |
| P-AAVV-B42 | overexpression    | pGMAAV-TBG-MCS-P2A-mCherry              | TBG      | mCherry  | No            | null              |
| P-AAVV-B43 | overexpression    | pGMAAV-GFAP-MCS-P2A-mCherry             | GFAP     | mCherry  | No            | null              |
| P-AAVV-B44 | overexpression    | pGMAAV-CAG-DIO-T2Am-EGFP                | CAG      | EGFP     | Yes           | null              |
| P-AAVV-B45 | overexpression    | pGMAAV-CMV-DIO-EGFP                     | CMV      | EGFP     | Yes           | null              |
| P-AAVV-B46 | shRNA for RNAi    | pGMAAV-U6-MCS-CMV-luc( $\Delta$ EGFP)   | U6       | null     | No            | null              |
| P-AAVV-B47 | overexpression    | pGMAAV-CMV-MCS-EF1-EGFP( $\Delta$ WPRE) | CMV      | EGFP     | No            | null              |
| P-AAVV-B48 | overexpression    | pGMAAV-EF1-MCS-CMV-EGFP                 | EF1      | EGFP     | No            | null              |
| P-AAVV-B49 | overexpression    | pGMAAV-hCAG-MCS-P2A-ZsGreen             | hCAG     | ZsGreen  | No            | null              |
| P-AAVV-B50 | overexpression    | pGMAAV-CMV-MCS-P2A-ZsGreen              | CMV      | ZsGreen  | No            | null              |
| P-AAVV-B51 | overexpression    | pGMAAV-CMV-MCS-P2A-luciferase           | CMV      | luc      | No            | null              |
| P-AAVV-B52 | overexpression    | pGMAAV-hSyn-MCS-T2Am-ZsGreen            | hSyn     | ZsGreen  | No            | null              |
| P-AAVV-B53 | overexpression    | pGMAAV-TNT-3flag-P2A-EGFP               | cTNT     | EGFP     | No            | 3FLAG(C-terminal) |
| P-AAVV-B55 | overexpression    | pGMAAV-pGMAAV-cTNT-MCS                  | cTNT     | null     | No            | null              |
| P-AAVV-B56 | overexpression    | pGMAAV-CMV-MCS-T2A-mcherry              | CMV      | mCherry  | No            | null              |
| P-AAVV-B57 | overexpression    | pGMAAV-cTNT-MCS-3flag-P2A-EGFP          | cTNT     | EGFP     | No            | 3FLAG(C-terminal) |
| P-AAVV-B58 | overexpression    | pGMAAV-hSyn-cre                         | hSyn     | null     | No            | null              |
| P-AAVV-B59 | overexpression    | pscAAV-U6-BB-sgRNA-PGK-EGFP             | U6       | EGFP     | No            | null              |
| P-AAVV-B60 | overexpression    | pGMAAV-CMV-DIO-tdtomato                 | CMV      | tdtomato | Yes           | null              |
| P-AAVV-B61 | overexpression    | pGMAAV-CAG-DIO-T2Am-tdtomato            | CAG      | tdtomato | Yes           | null              |
| P-AAVV-B62 | overexpression    | pGMAAV-EF1a-DIO-FLPo-WPRE-hGHpa         | EF1a     | null     | Yes           | null              |
| P-AAVV-B63 | overexpression    | pGMAAV-CAG-MCS (NO WPRE)                | CAG      | null     | No            | null              |
| P-AAVV-B64 | overexpression    | pGMAAV-CAG-MCS-T2A-ZsGreen (NO WPRE)    | CAG      | ZsGreen  | No            | null              |
| P-AAVV-B65 | overexpression    | pGMAAV-CMV-MCS (NO WPRE)                | CMV      | null     | No            | null              |
| P-AAVV-B66 | overexpression    | pGMAAV-CMV-MCS-T2A-ZsGreen (NO WPRE)    | CMV      | ZsGreen  | No            | null              |
| P-AAVV-B67 | overexpression    | pGMAAV-TBG-MCS-CMV-ZsGreen              | TBG      | ZsGreen  | No            | null              |
| P-AAVV-B68 | overexpression    | pGMAAV-TBG-MCS-NULL                     | TBG      | null     | No            | null              |
| P-AAVV-B69 | overexpression    | pGMAAV-CMV-circ-EF1-ZsGreen             | CMV      | ZsGreen  | No            | null              |
| P-AAVV-B70 | overexpression    | pGMAAV-CMV-MCS-T2Am-ZsGreen             | CMV      | ZsGreen  | No            | null              |
| P-AAVV-B71 | overexpression    | pGMAAV-CMV-MCS-3flag                    | CMV      | null     | No            | 3FLAG(C-terminal) |
| P-AAVV-B72 | overexpression    | pGMAAV-GFAP-MCS-NULL                    | GFAP     | null     | No            | null              |
| P-AAVV-B73 | overexpression    | pGMAAV-cTNT-mCherry                     | cTNT     | mCherry  | No            | null              |
| P-AAVV-B74 | shRNA for RNAi    | pGMAAV-U6-MCS-CMV-eRFP                  | U6       | eRFP     | No            | null              |
| P-AAVV-B75 | overexpression    | pGMAAV-CMV-MCS-EF1-eRFP                 | CMV      | eRFP     | No            | null              |
| P-AAVV-B76 | overexpression    | pGMAAV-CMV-MCS-3flag-T2A-eRFP           | CMV      | eRFP     | No            | 3FLAG(C-terminal) |
| P-AAVV-B77 | overexpression    | pGMAAV-hsyn-DIO-MCS                     | hsyn     | null     | Yes           | null              |
| P-AAVV-B78 | shRNA for RNAi    | pGMAAV-U6-DIO-CMV-mcherry               | U6       | mcherry  | Yes           | null              |
| P-AAVV-B79 | overexpression    | pGMAAV-CMV-T2A-ZsGreen-W3-BGH pa        | CMV      | ZsGreen  | No            | null              |
| P-AAVV-B80 | overexpression    | pGMAAV-cTNT-LUCi                        | cTNT     | LUCi     | No            | null              |
| P-AAVV-B81 | shRNA for RNAi    | pGMAAV-U6-DIO-CMV-EGFP                  | U6       | EGFP     | Yes           | null              |
| P-AAVV-B82 | overexpression    | pGMAAV-CMV-3flag-EF1-ZsGreen-w3-bgh pa  | CMV      | ZsGreen  | No            | 3FLAG(C-terminal) |
| P-AAVV-B83 | overexpression    | pGMAAV-CMV-MCS-EF1-luc                  | CMV      | luc      | No            | null              |
| P-AAVV-B84 | overexpression    | pGMAAV-TBG-P2A-LUCi                     | TBG      | LUCi     | No            | null              |

## 2 Lentivirus vector system & Lentivirus expression vectors

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| Product Name             | Contents  |
|--------------------------|---|
| Lentivirus vector system | 1. PMD2G, Cat No.: P-ALV-C01; 5ug                     |
|                          | 2. pSPAX2, Cat No.: P-ALV-C02; 5ug                    |
|                          | 3. Lentivirus expression vectors(P-ALV-B01~P-ALV-B91) |
| PMD2G                    | Cat No.: P-ALV-C01; size: 5ug                         |
| pSPAX2                   | Cat No.: P-ALV-C02; size: 5ug                         |

| Cat.No    | Expression     | Name of Vectors                               | Promoter | Reporter   | Selection | TAG (unfusion)    |
|-----------|----------------|---|----------|------------|-----------|-------------------|
| P-ALV-B01 | Overexpression | pCDH-MSCV-MCS-EF1-copGFP-T2A-Puromycin        | MSCV     | copGFP     | Puromycin | NULL              |
| P-ALV-B02 | Overexpression | pGMLV-CMV-Circ-MCS-EF1-ZsGreen-T2A-Puromycin  | CMV      | ZsGreen    | Puromycin | NULL              |
| P-ALV-B03 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-fLUC-T2A-Puromycin    | CMV      | Luciferase | Puromycin | 3FLAG(C-terminal) |
| P-ALV-B04 | Overexpression | pGMLV-CMV-MCS-EF1-fLUC-T2A-Puromycin          | CMV      | Luciferase | Puromycin | NULL              |
| P-ALV-B05 | Overexpression | pGMLV-CMV-MCS-EF1-mCherry-T2A-Puromycin       | CMV      | mCherry    | Puromycin | NULL              |
| P-ALV-B06 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-mCherry-T2A-Puromycin | CMV      | mCherry    | Puromycin | 3FLAG(C-terminal) |
| P-ALV-B07 | Overexpression | pGMLV-CMV-MCS-EF1-Puromycin                   | CMV      | Null       | Puromycin | NULL              |
| P-ALV-B08 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-Puromycin             | CMV      | Null       | Puromycin | 3FLAG(C-terminal) |
| P-ALV-B09 | Overexpression | pGMLV-CMV-MCS-3flag-T2A-ZsGreen               | CMV      | ZsGreen    | Null      | 3FLAG(C-terminal) |
| P-ALV-B10 | Overexpression | pGMLV-CMV-MCS-T2A-ZsGreen                     | CMV      | ZsGreen    | Null      | NULL              |
| P-ALV-B11 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen-T2A-Puromycin | CMV      | ZsGreen    | Puromycin | 3FLAG(C-terminal) |
| P-ALV-B12 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-Puromycin       | CMV      | ZsGreen    | Puromycin | NULL              |
| P-ALV-B13 | Overexpression | pGMLV-CMV-MCS-T2A-Puromycin                   | CMV      | Null       | Puromycin | NULL              |
| P-ALV-B14 | Overexpression | pGMLV-CMV-MCS-dsRed-PGK-Puromycin             | CMV      | dsRed      | Puromycin | NULL              |
| P-ALV-B15 | Overexpression | pGMLV-CMV-MCS-IRES-Puromycin                  | CMV      | Null       | Puromycin | NULL              |
| P-ALV-B16 | Overexpression | pGMLV-CMV-MCS-IRES-ZsGreen                    | CMV      | ZsGreen    | Null      | NULL              |
| P-ALV-B17 | Overexpression | pGMLV-CMV-MCS-PGK-ZsGreen                     | CMV      | ZsGreen    | Null      | NULL              |
| P-ALV-B18 | Overexpression | pGMLV-CMV-MCS-PGK-Puromycin-IRES-ZsGreen      | CMV      | ZsGreen    | Puromycin | NULL              |
| P-ALV-B19 | shRNA for RNAi | pGMLV-U6-MCS-PGK-Puromycin                    | U6       | Null       | Puromycin | NULL              |
| P-ALV-B20 | shRNA for RNAi | pGMLV-U6-MCS-CMV-ZsGreen                      | U6       | ZsGreen    | Null      | NULL              |
| P-ALV-B21 | shRNA for RNAi | pGMLV-U6-MCS-CMV-ZsGreen-PGK-Puromycin        | U6       | ZsGreen    | Puromycin | NULL              |
| P-ALV-B22 | Overexpression | pGMLV-EM7-MCS-Ubc-rtTA3-Puromycin             | EM7      | Null       | Puromycin | NULL              |

| Cat.No    | Expression     | Name of Vectors                                  | Promoter | Reporter           | Selection   | TAG (unfusion)    |
|-----------|----------------|--|----------|--------------------|-------------|-------------------|
| P-ALV-B23 | Overexpression | pGMLV-PGK-Puromycin-Tnl-EGFP                     | PGK      | EGFP               | Puromycin   | NULL              |
| P-ALV-B24 | Overexpression | pGMLV-CMV-MCS-PGK-RFP                            | CMV      | RFP                | Null        | NULL              |
| P-ALV-B25 | Overexpression | pGMLV-CMV-MCS-PGK-Z418                           | CMV      | Null               | Z418        | NULL              |
| P-ALV-B26 | shRNA for RNAi | pGMLV-U6-MCS-PGK-BSD                             | U6       | Null               | Blasticidin | NULL              |
| P-ALV-B27 | Overexpression | pGMLV-TetOn-SV40-Puromycin-TRE3GS-MCS            | TRE3GS   | Null               | Puromycin   | NULL              |
| P-ALV-B28 | shRNA for RNAi | pGMLV-U6-MCS-hPGK-Puromycin                      | U6       | Null               | Puromycin   | NULL              |
| P-ALV-B29 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Luc                    | CMV      | RFP/Luciferase     | Null        | NULL              |
| P-ALV-B30 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Puromycin              | CMV      | RFP                | Puromycin   | NULL              |
| P-ALV-B31 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-Luc                | CMV      | ZsGreen/Lucifer    | Null        | NULL              |
| P-ALV-B32 | shRNA for RNAi | pGMLV-U6-MCS-EF1-Luc-T2A-Puromycin               | U6       | Luciferase         | Puromycin   | NULL              |
| P-ALV-B33 | shRNA for RNAi | pGMLV-U6-MCS-EF1-RFP-T2A-Luc                     | U6       | RFP/Luciferase     | Null        | NULL              |
| P-ALV-B34 | shRNA for RNAi | pGMLV-U6-MCS-EF1-RFP-T2A-Puromycin               | U6       | RFP                | Puromycin   | NULL              |
| P-ALV-B35 | shRNA for RNAi | pGMLV-U6-MCS-EF1-ZsGreen-T2A-Luc                 | U6       | ZsGreen/Luciferase | Null        | NULL              |
| P-ALV-B36 | shRNA for RNAi | pGMLV-U6-MCS-EF1-ZsGreen-T2A-BSD                 | U6       | ZsGreen            | Blasticidin | NULL              |
| P-ALV-B37 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-BSD                | CMV      | ZsGreen            | Blasticidin | NULL              |
| P-ALV-B38 | shRNA for RNAi | pGMLV-U6-MCS-EF1-fLuc-T2A-mCherry                | U6       | mCherry/Luciferase | Null        | NULL              |
| P-ALV-B39 | Overexpression | pGMLV-CMV-MCS-EF1-fLuc-T2A-mcherry               | CMV      | mCherry/Luciferase | Null        | NULL              |
| P-ALV-B40 | shRNA for RNAi | pGMLV-U6-MCS-EF1-fLuc-T2A-BSD                    | U6       | Luciferase         | Blasticidin | NULL              |
| P-ALV-B41 | shRNA for RNAi | pGMLV-U6-MCS-PGK-Z418                            | U6       | Null               | Z418        | NULL              |
| P-ALV-B42 | Overexpression | pGMLV-CMV-MCS-fLUC-EF1-ZsGreen-T2A-Puromycin     | CMV      | ZsGreen/Luciferase | Puromycin   | NULL              |
| P-ALV-B43 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen-T2A-Puromycin(I) | CMV      | ZsGreen            | Puromycin   | 3FLAG(C-terminal) |
| P-ALV-B44 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-fLUC(I)            | CMV      | ZsGreen/Luciferase | Null        | NULL              |
| P-ALV-B45 | shRNA for RNAi | pGMLV-U6-MCS-CMV-mCherry-P2A-BSD                 | U6       | mCherry            | Blasticidin | NULL              |
| P-ALV-B46 | shRNA for RNAi | pGMLV-U6-MCS-CMV-EGFP-P2A-BSD                    | U6       | EGFP               | Blasticidin | NULL              |
| P-ALV-B47 | Overexpression | pGMLV-CMV-DIO-ZsGreen-P2A-MCS-DIO-EF1-Puromycin  | CMV      | ZsGreen            | Puromycin   | NULL              |
| P-ALV-B48 | Overexpression | pGMLV-CMV-MCS-P2A-ZsGreen                        | CMV      | ZsGreen            | Null        | NULL              |
| P-ALV-B49 | gRNA           | pGMLV-U6-gRNA-EF1-Puromycin                      | U6       | Null               | Puromycin   | NULL              |
| P-ALV-B50 | cas9/gRNA      | pGMLV-U6-gRNA-EF1-CAS9-Puromycin                 | U6       | Null               | Puromycin   | 1FLAG             |
| P-ALV-B51 | shRNA for RNAi | pGMLV-U6-MCS-EF1-mCherry-T2A-Puromycin           | U6       | mCherry            | Puromycin   | NULL              |
| P-ALV-B52 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen                        | CMV      | ZsGreen            | Null        | NULL              |
| P-ALV-B53 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen                  | CMV      | ZsGreen            | Null        | 3FLAG(C-terminal) |
| P-ALV-B54 | Overexpression | pCDH-MSCV-MCS-3flag-EF1-copGFP-T2A-Puromycin     | MSCV     | copGFP             | Puromycin   | 3FLAG(C-terminal) |
| P-ALV-B55 | gRNA           | pGMLV-U6-gRNA-EF1-ZsGreen                        | U6       | ZsGreen            | Null        | NULL              |
| P-ALV-B56 | Overexpression | pGMLV-CMV-MCS-EF1-fLUC-T2A-BSD                   | CMV      | Luciferase         | Blasticidin | NULL              |

| Cat.No    | Expression     | Name of Vectors                               | Promoter | Reporter        | Selection   | TAG (unfusion)    |
|-----------|----------------|---|----------|-----------------|-------------|-------------------|
| P-ALV-B57 | Overexpression | pGMLV-CMV-MCS-EF1-Cas9-P2A-BSD                | CMV      | Null            | Blasticidin | NULL              |
| P-ALV-B58 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Hygro               | CMV      | RFP             | hygro       | NULL              |
| P-ALV-B59 | shRNA for RNAi | pGMLV-U6-CMV-RFP-P2A-BSD-N                    | U6       | RFP             | Blasticidin | NULL              |
| P-ALV-B60 | Overexpression | pGMLV-CMV-EF1-ZsGreen-P2A-BSD                 | CMV      | ZsGreen         | Blasticidin | NULL              |
| P-ALV-B61 | Overexpression | pGMLV-CMV-MCS-T2A-mCherry                     | CMV      | mCherry         | Null        | NULL              |
| P-ALV-B62 | shRNA for RNAi | pGMLV-U6-CMV-EGFP-P2A-BSD                     | U6       | EGFP            | Blasticidin | NULL              |
| P-ALV-B63 | Overexpression | pGMLV-DIO-ZsGreen-P2A-MCS-DIO-Puromycin       | CMV      | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B64 | Overexpression | pGMLV-CMV-EF1-ZsGreen-P2A-Puromycin           | CMV      | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B65 | Overexpression | pGMLV-CMV-P2A-ZsGreen-P2A-Puromycin           | CMV      | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B66 | Overexpression | pGMLV-MCS-EF1-ZsGreen-T2A-Puromycin           | Null     | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B67 | LC3            | pGMLV-CMV-EGFP-LC3-T2A-Puromycin              | CMV      | EGFP            | Puromycin   | NULL              |
| P-ALV-B68 | LC3            | pGMLV-CMV-mCherry-EGFP-LC3-T2A-Puromycin      | CMV      | EGFP/mCherry    | Puromycin   | NULL              |
| P-ALV-B69 | cas9/gRNA      | pGMLV-U6-scramble-EF1-cas9-Puromycin          | U6       | Null            | Puromycin   | NULL              |
| P-ALV-B70 | cas9/gRNA      | pGMLV-U6-scramble-CMV-Cas9-T2A-ZsGreen        | U6       | ZsGreen         | Null        | NULL              |
| P-ALV-B71 | cas9/gRNA      | pGMLV-U6-scramble-EF1-Cas9-P2A-ZsGreen        | U6       | ZsGreen         | Null        | NULL              |
| P-ALV-B72 | Overexpression | pGMLV-CMV-MCS-EF1-Z418                        | CMV      | Null            | Z418        | NULL              |
| P-ALV-B73 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-mCherry-P2A-BSD       | CMV      | mCherry         | Blasticidin | 3FLAG(C-terminal) |
| P-ALV-B74 | shRNA for RNAi | pGMLV-U6-MCS-PGK-Z418(E)                      | U6       | Null            | Z418        | NULL              |
| P-ALV-B75 | shRNA for RNAi | pGMLV-U6-gRNA-PGK-BSD                         | U6       | Null            | Blasticidin | NULL              |
| P-ALV-B76 | Overexpression | pGMLV-EF1-T2A-MCS-ZsGreen                     | EF1      | ZsGreen         | Null        | NULL              |
| P-ALV-B77 | cas9/gRNA      | pGMLV-U6-gRNA-EF1-mCherry-BSD                 | U6       | mCherry         | Blasticidin | NULL              |
| P-ALV-B78 | Overexpression | pGMLV-CMV-DIO-EF1-Puromycin                   | CMV      | Null            | Puromycin   | NULL              |
| P-ALV-B79 | Overexpression | pGMLV-CMV-Circ-MCS-EF1-ZsGreen                | CMV      | ZsGreen         | Null        | NULL              |
| P-ALV-B80 | Overexpression | pGMLV-CMV-cre-3flag-EF1-ZsGreen-T2A-Puromycin | CMV      | ZsGreen         | Puromycin   | 3FLAG(C-terminal) |
| P-ALV-B81 | Overexpression | pGMLV-EF1-MCS-CMV-Puromycin                   | EF1      | Null            | Puromycin   | NULL              |
| P-ALV-B82 | Overexpression | pGMLV-EF1-MCS-CMV-ZsGreen                     | EF1      | ZsGreen         | Null        | NULL              |
| P-ALV-B83 | Overexpression | pGMLV-EF1-MCS-CMV-ZsGreen-T2A-Puromycin       | EF1      | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B84 | Overexpression | pGMLV-EF1-MCS-P2A-ZsGreen-P2A-Puromycin       | EF1      | ZsGreen         | Puromycin   | NULL              |
| P-ALV-B85 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-mcherry               | CMV      | mCherry         | Null        | 3FLAG(C-terminal) |
| P-ALV-B86 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-eRFP-T2A-Puromycin    | CMV      | eRFP            | Puromycin   | 3FLAG(C-terminal) |
| P-ALV-B87 | shRNA for RNAi | pGMLV-U6-MCS-EF1-eRFP-T2A-Puromycin           | U6       | eRFP            | Puromycin   | NULL              |
| P-ALV-B88 | Overexpression | pGMLV-CMV-eRFP-EGFP-LC3-T2A -Puromycin        | CMV      | eRFP/EGFP       | Puromycin   | NULL              |
| P-ALV-B89 | Overexpression | pGMLV-CMV-circ-EF1-copGFP-Puromycin           | CMV      | copGFP          | Puromycin   | NULL              |
| P-ALV-B90 | Overexpression | pGMLV-CMV-LUC-EF1-eRFP-T2A-Puromycin          | CMV      | eRFP/Luciferase | Puromycin   | NULL              |
| P-ALV-B91 | Overexpression | pGMLV-CMV-circ-EF1-ZsGreen-T2A-Puromycin-N    | CMV      | ZsGreen         | Puromycin   | NULL              |

## 3

## Premade Adenovirus &amp; Adenovirus expression vectors

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| Product Name                       | Size      |
|------------------------------------|-----------|
| Adenovirus genome backbone plasmid | size: 5ug |

| Cat.No     | Expression                    | Name of Vectors                             | Promoter | Reporter          | Selection | TAG (unfusion)    |
|------------|-------------------------------|---|----------|-------------------|-----------|-------------------|
| P-AADV-B01 | overexpression                | pGMAd-EF1a-MCS-CMV-EGFP                     | EF1a     | EGFP              | Null      | NULL              |
| P-AADV-B02 | overexpression                | pGMAd-EF1a-MCS-3flag-CMV-EGFP               | EF1a     | EGFP              | Null      | 3FLAG(C-terminal) |
| P-AADV-B03 | overexpression                | pGMAd-EF1a-MCS-CMV-RFP                      | EF1a     | RFP               | Null      | NULL              |
| P-AADV-B04 | overexpression/shRNA for RNAi | pGMAd-U6-MCS-CMV-MCS                        | U6/CMV   | Null              | Null      | NULL              |
| P-AADV-B05 | overexpression                | pGMAd-U6-MCS-CMV-MCS-3flag                  | U6/CMV   | Null              | Null      | 3FLAG(C-terminal) |
| P-AADV-B06 | overexpression                | pGMAd-EF1-MCS-CMV-Puromycin                 | EF1a     | Null              | Puromycin | NULL              |
| P-AADV-B07 | overexpression                | pGMAd-MCMV-MCS-CMV-EGFP                     | MCMV     | EGFP              | Null      | NULL              |
| P-AADV-B08 | overexpression                | pGMAd-MCMV-MCS-3flag-CMV-EGFP               | MCMV     | EGFP              | Null      | 3FLAG(C-terminal) |
| P-AADV-B09 | overexpression                | pGMAd-MCMV-MCS-CMV-RFP                      | MCMV     | RFP               | Null      | NULL              |
| P-AADV-B10 | overexpression                | pGMAd-MCMV-MCS-3flag-CMV-RFP                | MCMV     | RFP               | Null      | 3FLAG(C-terminal) |
| P-AADV-B11 | overexpression                | pGMAd-MCMV-MCS-CMV-Luc                      | MCMV     | luciferase ferase | Null      | NULL              |
| P-AADV-B12 | circRNAoverexpression         | pGMAd-EF1a-circRNA-CMV-EGFP                 | EF1a     | EGFP              | Null      | NULL              |
| P-AADV-B13 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-EGFP                       | U6       | EGFP              | Null      | NULL              |
| P-AADV-B14 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-RFP                        | U6       | RFP               | Null      | NULL              |
| P-AADV-B15 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-Luc                        | U6       | luciferase ferase | Null      | NULL              |
| P-AADV-B16 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-Puromycin                  | U6       | Null              | Puromycin | NULL              |
| P-AADV-B17 | Cas9/gRNAfor Konckout         | pGMAd-U6-grNA-CMV-Cas9-T2A-ZsGreen          | U6       | ZsGreen           | Null      | NULL              |
| P-AADV-B18 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-EGFP- $\Delta$ loxp        | U6       | EGFP              | Null      | NULL              |
| P-AADV-B19 | overexpression                | pGMAd-EF1-MCS-3flag-CMV-EGFP- $\Delta$ loxp | EF1a     | EGFP              | Null      | 3FLAG(C-terminal) |
| P-AADV-B20 | overexpression                | pGMAd-EF1-MCS-CMV-Puromycin- $\Delta$ loxp  | EF1a     | Null              | Puromycin | NULL              |



| Cat.No     | Expression            | Name of Vectors                                    | Promoter | Reporter             | Selection | TAG (unfusion)    |
|------------|-----------------------|--|----------|----------------------|-----------|-------------------|
| P-AADV-B21 | circRNAoverexpression | pGMAd-EF1-CircRNA-CMV-EGFP- $\Delta$ loxp          | EF1a     | EGFP                 | Null      | NULL              |
| P-AADV-B22 | overexpression        | pGMAd-EF1-MCS-CMV-EGFP- $\Delta$ loxp              | EF1a     | EGFP                 | Null      | NULL              |
| P-AADV-B23 | overexpression        | pGMAd-EF1-MCS-3flag-CMV-mCherry- $\Delta$ loxp     | EF1a     | mCherry              | Null      | 3FLAG(C-terminal) |
| P-AADV-B24 | overexpression        | pGMAd-EF1-MCS-3flag-CMV-Luc- $\Delta$ loxp         | EF1a     | Luc                  | Null      | 3FLAG(C-terminal) |
| P-AADV-B25 | overexpression        | PGMAd-EF1-MCS-3flag-CMV-EYFP                       | EF1a     | EYFP                 | Null      | 3FLAG(C-terminal) |
| P-AADV-B26 | shRNA for RNAi        | pGMAd-U6-MCS-CMV-mCherry                           | U6       | mCherry              | Null      | NULL              |
| P-AADV-B27 | shRNA for RNAi        | pGMAd-U6-gRNA-CMV-Cas9                             | U6       | Null                 | Null      | NULL              |
| P-AADV-B28 | gRNA for Konckout     | pGMAd-U6-gRNA-CMV-mCherry                          | U6       | mCherry              | Null      | NULL              |
| P-AADV-B29 | gRNA for Konckout     | pGMAd-U6-gRNA-CMV-EGFP                             | U6       | EGFP                 | Null      | NULL              |
| P-AADV-B30 | overexpression        | pGMAd-EF1-CircRNA                                  | EF1a     | Null                 | Null      | NULL              |
| P-AADV-B31 | shRNA for RNAi        | pGMAD-U6-MCS-CMV-LUC                               | U6       | luciferase<br>ferase | Null      | NULL              |
| P-AADV-B32 | overexpression        | pGMAd-GFAP-T2A-EGFP                                | GFAP     | EGFP                 | Null      | NULL              |
| P-AADV-B33 | gRNA for Konckout     | pGMAd-U6-gRNA-CMV-mCherry                          | U6       | mCherry              | Null      | NULL              |
| P-AADV-B34 | gRNA for Konckout     | pGMAd-U6-gRNA-CMV-Cas9-T2A-ZsGreen ( $\Delta$ NLS) | U6       | ZsGreen              | Null      | NULL              |
| P-AADV-B35 | gRNA for Konckout     | pGMAd-U6-gRNA-CMV-Cas9 ( $\Delta$ NLS)             | U6       | Null                 | Null      | NULL              |
| P-AADV-B36 | overexpression        | pGMAD-EF1-MCS-3flag-CMV-eRFP- $\Delta$ loxp        | EF1a     | eRFP                 | Null      | 3FLAG(C-terminal) |
| P-AADV-B37 | shRNA for RNAi        | pGMAd-U6-MCS-CMV-eRFP                              | U6       | eRFP                 | Null      | NULL              |

| Cat No.           | Products Name                           | Type of Crispr | Viral vector | Promoter | Fluorescent/Resistance | Tag  |
|-------------------|---|----------------|--------------|----------|------------------------|------|
| GMV-Crispr-AAV001 | <a href="#">AAV-CMV-saCas9</a>          | saCas9         | AAV          | CMV      | Null                   | HA   |
| GMV-Crispr-AdV001 | <a href="#">Ad-CMV-spCas9</a>           | spCas9         | Adenovirus   | CMV      | zsgreen                | FLAG |
| GMV-Crispr-AdV002 | <a href="#">Adv-CMV-spCas9-zsgreen</a>  | spCas9         | Adenovirus   | CMV      | EGFP                   | FLAG |
| GMV-Crispr-AdV003 | <a href="#">Adv-CMV-spCas9-EGFP</a>     | spCas9         | Adenovirus   | CMV      | Null                   | FLAG |
| GMV-Crispr-AdV004 | <a href="#">Adv-CMV-spCas9-mcherry</a>  | spCas9         | Adenovirus   | CMV      | mcherry                | FLAG |
| GMV-Crispr-LV001  | <a href="#">Lv-CMV-spCas9-puromycin</a> | spCas9         | lentivirus   | CMV      | puromycin              | FLAG |
| GMV-Crispr-LV002  | <a href="#">Lv-CMV-spCas9-zsgreen</a>   | spCas9         | lentivirus   | CMV      | zsgreen                | FLAG |
| GMV-Crispr-LV003  | <a href="#">Lv-CMV-spCas9-EGFP</a>      | spCas9         | lentivirus   | CMV      | EGFP                   | FLAG |
| GMV-Crispr-LV004  | <a href="#">Lv-CMV-spCas9-mcherry</a>   | spCas9         | lentivirus   | CMV      | mcherry                | FLAG |
| GMV-Crispr-LV005  | <a href="#">Lv-CBH-spCas9-puromycin</a> | spCas9         | lentivirus   | CBH      | puromycin              | FLAG |
| GMV-Crispr-LV006  | <a href="#">Lv-CBH-spCas9-zsgreen</a>   | spCas9         | lentivirus   | CBH      | zsgreen                | FLAG |
| GMV-Crispr-LV007  | <a href="#">Lv-CBH-spCas9-EGFP</a>      | spCas9         | lentivirus   | CBH      | EGFP                   | FLAG |
| GMV-Crispr-LV008  | <a href="#">Lv-CBH-spCas9-mcherry</a>   | spCas9         | lentivirus   | CBH      | mcherry                | FLAG |

## Cre/loxP tools in AAV, adenoviral and lentiviral vector

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| Cat No.        | Pre-made Cre         | Protomer       | Promoter Tissue Specificity | Promoter Tissue Specificity characteristics  |
|----------------|----------------------|----------------|-----------------------------|--|
| GMV-AdCre-01   | Ad-CMV-Cre           | CMV            | Total                       | Total  |
| GMV-AdCre-02   | Ad-CMV-Cre-GFP       | CMV            | Total                       | Total  |
| GMV-AAV9Cre-01 | AAV9-CMV-Cre         | CMV            | Total                       | Total  |
| GMV-AAV9Cre-02 | AAV9-CMV-Cre-ZsGreen | CMV            | Total                       | Total  |
| GMV-AAV9Cre-03 | AAV9-CAG-Cre         | CAG            | Total                       | Total  |
| GMV-AAV9Cre-04 | AAV9-CAG-Cre-ZsGreen | CAG            | Total                       | Total  |
| GMV-AAV9Cre-05 | AAV9-Syn-Cre-EGFP    | synapsin (SYN) | Neuro                       | Neuron-specific promoter                     |
| GMV-AAV9Cre-06 | AAV9-Syn-Cre         | synapsin (SYN) | Neuro                       | Neuron-specific promoter                     |
| GMV-AAV9Cre-07 | AAV9-CaMKII-Cre-EGFP | CaMKII         | Neuro                       | Forebrain glutamate neuron-specific promoter |
| GMV-AAV9Cre-08 | AAV9-CaMKII-Cre      | CaMKII         | Neuro                       | Forebrain glutamate neuron-specific promoter |
| GMV-AAV9Cre-09 | AAV9-GFAP-Cre-EGFP   | GFAP           | Neuro                       | Astrocyte specific promoter                  |
| GMV-AAV9Cre-10 | AAV9-GFAP-Cre        | GFAP           | Neuro                       | Astrocyte specific promoter                  |
| GMV-AAV9Cre-11 | AAV9-cTNT-Cre        | cTnT           | heart                       | Cardiomyocyte specific promoter              |
| GMV-AAV9Cre-12 | AAV9-cTNT-Cre-EGFP   | cTnT           | heart                       | Cardiomyocyte specific promoter              |
| GMV-AAV9Cre-13 | AAV9-TBG-Cre         | TBG            | liver                       | Hepatic specific promoter                    |
| GMV-AAV9Cre-14 | AAV9-TBG-Cre-ZsGreen | TBG            | liver                       | Hepatic specific promoter                    |
| GMV-AAV9Cre-15 | AAV9-TIE-Cre         | TIE            | endothelial                 | Endothelial-specific promoter                |
| GMV-AAV9Cre-16 | AAV9-cd68-Cre        | cd68           | Neuro                       | Microglia-specific promoter                  |
| GMV-AAV9Cre-17 | AAV9-c-fos-Cre       | c-fos          | Neuro                       | Excitatory neuron promoter                   |
| GMV-AAV9Cre-18 | AAV9-mecp2-Cre       | mecp2          | Neuro                       | Shorter neuron-specific promoter             |
| GMV-AAV9Cre-19 | AAV9-MHCK7-Cre       | MHCK7          | muscle                      | Muscle specific promoter                     |
| GMV-AAV9Cre-20 | AAV9-Rpe65-Cre       | Rpe65          | retina                      | Retinal specific promoter                    |
| GMV-AAV9Cre-21 | AAV9-sm22a-Cre       | sm22a          | muscle                      | Smooth muscle specific promoter              |
| GMV-AAV9Cre-22 | AAV9-Spc5-12-Cre     | Spc5-12        | muscle                      | Myocyte specific promoter                    |
| GMV-AAV9Cre-23 | AAV9-Ta1-Cre         | Tal            | Neuro                       | Early neuron-specific promoter               |
| GMV-LvCre-01   | Lv-CMV-Cre           | CMV            | Total                       | Total  |
| GMV-LvCre-02   | Lv-CMV-Cre-zsgreen   | CMV            | Total                       | Total  |

**GeneMedi offer multiple serotypes of AAV-Cre loxP system for your option, please contact us about your choice in the following ways:**

Email: [support@genemedi.net](mailto:support@genemedi.net) or [sales@genemedi.net](mailto:sales@genemedi.net)

Leave your message, we will reply in 1 day: [www.genemedi.net/contact](http://www.genemedi.net/contact)

AAV1-Cre, AAV2-Cre, AAV2 variant (Y444F)-Cre, AAV2 variant (Y272F, Y444F, Y500F, Y730F)-Cre, AAV2 variant (Y444F, Y730F, Y500F, Y272F, Y704F, Y252F)-Cre, AAV2 variant(AAV2.7m8)-Cre, AAV5-Cre, AAV6-Cre, AAV8-Cre, AAV8-1m-Cre, AAV8-2m-Cre, AAV8 variant (Y733F, Y447F, Y275)-Cre, AAV9-Cre, AAV-Rh.10-Cre, AAV-DJ-Cre, AAV-DJ/8-Cre, AAV-Retro (Retrograde)-Cre, AAV9-PHP.B-Cre, AAV9-PHP.A-Cre, AAV9-PHP.eB-Cre, AAV9-PHP.S-Cre

**Pre-made AAV-LC3 Autophagy Flux Biosensor**

| Catalog No. | Product Name         |
|-------------|----------------------|
| GM-AAVPAU01 | AAV-CMV-mRFP-GFP-LC3 |
| GM-AAVPAU02 | AAV-CMV-GFP-LC3      |

**Pre-made adenovirus-LC3 Autophagy Flux Biosensor**

| Product         | Adv Vector Production Scale |
|-----------------|-----------------------------|
| Ad-mRFP-GFP-LC3 | 1E+10PFU                    |
| Ad-mRFP-GFP-LC3 | 1E+11PFU                    |
| Ad-mRFP-GFP-LC3 | 1E+12PFU                    |
| Ad-GFP-LC3      | 1E+10PFU                    |
| Ad-GFP-LC3      | 1E+11PFU                    |
| Ad-GFP-LC3      | 1E+12PFU                    |

**Pre-made lentivirus-LC3 Autophagy Flux Biosensor**

| Product                 | Lentivirus Vector Production Scale |
|-------------------------|------------------------------------|
| Lentivirus-mRFP-GFP-LC3 | 1E+8TU                             |
| Lentivirus-mRFP-GFP-LC3 | 1E+9TU                             |
| Lentivirus-mRFP-GFP-LC3 | 1E+10TU                            |
| Lentivirus-GFP-LC3      | 1E+8TU                             |
| Lentivirus-GFP-LC3      | 1E+9TU                             |
| Lentivirus-GFP-LC3      | 1E+10TU                            |

GeneMedi offer multiple serotypes of AAV-LC3 products, please contact us about your choice in the following ways:

Email: [support@genemedi.net](mailto:support@genemedi.net) or [sales@genemedi.net](mailto:sales@genemedi.net)

Leave your message, we will reply in 1 day: [www.genemedi.net/contact](http://www.genemedi.net/contact)

AAV1, AAV2-, AAV2 variant (Y444F), AAV2 variant (Y272F, Y444F, Y500F, Y730F), AAV2 variant (Y444F, Y730F, Y500F, Y272F, Y704F, Y252F), AAV2 variant(AAV2.7m8), AAV5, AAV6, AAV8, AAV8-1m, AAV8-2m, AAV8 variant (Y733F, Y447F, Y275), AAV9, AAV-Rh.10, AAV-DJ, AAV-DJ/8, AAV-Retro (Retrograde), AAV9-PHP.B, AAV9-PHP.A, AAV9-PHP.eB, AAV9-PHP.S

## Pre-made biosensors & Organelle Bioprobe in adenovirus & AAV vector

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| Cat No.              | Name of Biosensors (BioProbes)                                | Biosensors/Bioprobes Description   |
|----------------------|---|--|
| GM-Probe-Adsensor-01 | Adv-actin indicator(mTurquoise reporter)                      | Actin cytoskeletal localization  |
| GM-Probe-Adsensor-02 | Adv-GCaMP6m(medium variant calcium indicator)                 | GCaMP6 is a super-sensitive fluorescent protein, which is widely used to reflect the changes of intracellular free Ca <sup>2+</sup> concentration. GCaMP6 fluorescent protein can be used as a hypersensitive Ca <sup>2+</sup> probe to study the effects of external factors on Ca <sup>2+</sup> in living cells under physiological and pathological conditions. GCaMP6m is a genetically encoded fluorescent Ca <sup>2+</sup> indicator that shows high sensitivity and medium decay kinetics. It consists of the calmodulin-binding peptide M13, a circularly permuted green fluorescent protein and calmodulin. |
| GM-Probe-Adsensor-03 | Adv-GCaMP6s(slow variant calcium indicator)                   |  |
| GM-Probe-Adsensor-04 | Adv-GCaMP6f(fast variant calcium indicator)                   |  |
| GM-Probe-Adsensor-05 | Adv-Peroxisome indicator(mTurquoise reporter)                 | Peroxisome localization  |
| GM-Probe-Adsensor-06 | Adv-lactate biosensor(Laonic fluorescent protein)             | Laonic fluorescent protein can specifically and efficiently reflect the changes of lactate concentration in living cells, so as to reflect the influence of external factors on intracellular metabolism in real time. It can be used to study the metabolic rate of lactic acid in cells.   |
| GM-Probe-Adsensor-07 | Adv-NES(nuclear export signal) indicator(mTurquoise reporter) | NES(nuclear export signal), which is for export from the cell nucleus to the cytoplasm localization  |
| GM-Probe-Adsensor-08 | Adv-Mito(mitochondrial)indicator(mTurquoise reporter)         | Mito (mitochondrial) localization  |
| GM-Probe-Adsensor-09 | Adv-H2O2 biosensor(Laonic fluorescent protein)                | HyPer(Hydrogen peroxide sensor) is the first fully genetically encoded fluorescent sensor capable of detecting intracellular hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ), one of the main ROS generated by cells.   |
| GM-Probe-Adsensor-10 | Adv-Tubulin indicator(mTurquoise reporter)                    | Tubulin cytoskeletal localization  |
| GM-Probe-Adsensor-11 | Adv-ER(endoplasmic reticulum) indicator(mTurquoise reporter)  | ER(endoplasmic reticulum) localization   |
| GM-Probe-Adsensor-12 | Adv-Membrane voltage(membrane potential) biosensor(VSFP)      | VSFP(voltagesensitive fluorescent protein) Butterfly fluorescent protein can accurately reflect the polarization, depolarization and other membrane potential changes of excitatory cells such as cardiomyocytes and neurons   |
| GM-Probe-Adsensor-13 | Adv-High glucose concentration biosensor(Hglu)                | FLIPglu fluorescent protein can specifically and efficiently reflect the changes of glucose concentration in living cells, so as to reflect the influence of external factors on intracellular metabolism in real time. It can be used to study intracellular glucose metabolism rate and transmembrane transport rate.  |
| GM-Probe-Adsensor-14 | Adv-Low glucose concentration biosensor(Lglu)                 |  |
| GM-Probe-Adsensor-15 | Adv-lysosome indicator(Lamp1-RFP fusion protein)              | Lamp1(lysosome associated membrane protein 1) is fused to RFP. Used for localization to the lysosome.  |
| GM-Probe-Adsensor-16 | Adv-Mg <sup>2+</sup> biosensor(Mag6)                          | Mag6(Mag FRET fluorescence protein) can specifically and efficiently reflect the change of intracellular free Mg <sup>2+</sup> concentration. Mg <sup>2+</sup> is an important ion to maintain the stability of ATP and a catalyst for many proteins in cells to maintain enzyme activity. It regulates a lot of signal transduction processes.  |

| Cat No.               | Name of Biosensors (BioProbes)                                | Biosensors/Bioprobes Description   |
|-----------------------|---|--|
| GM-Probe-Adsensor-17  | Adv-ATP biosensor(ATeam1.03)                                  | ATeam1.03,a FRET-based ATP Fluorescent Biosensor, is an Adenosine 5-Triphosphate indicator based on Epsilon subunit for Analytical Measurements  |
| GM-Probe-Adsensor-18  | Adv-mitochondrial autophagy indicator(mt-mKeima)              | Monomeric Keima (mKeima), a coral-derived acid-stable fluorescent protein that emits different-colored signals at acidic and neutral pHs. The mitochondrial mKeima(mt-mKeima) can be shown to enter the lysosome mitochondria through the autophagy pathway, so as to directly reflect the   |
| GM-Probe-Adsensor-19  | Adv-Mito(mitochondrial)indicator(DsRed reporter)              | The mitochondrial targeting sequence from subunit VIII of human cytochrome c oxidase (Mito) is fused to the 5'-end of DsRed,which is designed for fluorescent labeling of mitochondria.  |
| GM-Probe-AAVsensor-01 | AAV-actin indicator(mTurquoise reporter)                      | Actin cytoskeletal localization  |
| GM-Probe-AAVsensor-02 | AAV-GCaMP6m(medium variant calcium indicator)                 | GcaMP6 is a super-sensitive fluorescent protein, which is widely used to reflect the changes of intracellular free Ca <sup>2+</sup> concentration. GcaMP6 fluorescent protein can be used as a hypersensitive Ca <sup>2+</sup> probe to study the effects of external factors on Ca <sup>2+</sup> in living cells under physiological and pathological conditions.GCaMP6m is a genetically encoded fluorescent Ca <sup>2+</sup> indicator that shows high sensitivity and medium decay kinetics. It consists of the calmodulin-binding peptide M13, a circularly permuted green fluorescent protein and calmodulin.                                  |
| GM-Probe-AAVsensor-03 | AAV-GCaMP6s(slow variant calcium indicator)                   |  |
| GM-Probe-AAVsensor-04 | AAV-GCaMP6f(fast variant calcium indicator)                   |  |
| GM-Probe-AAVsensor-05 | AAV-Peroxisome indicator(mTurquoise reporter)                 | Peroxisome localization  |
| GM-Probe-AAVsensor-06 | AAV-lactate biosensor(Laonic fluorescent protein)             | Laonic fluorescent protein can specifically and efficiently reflect the changes of lactate concentration in living cells, so as to reflect the influence of external factors on intracellular metabolism in real time. It can be used to study the metabolic rate of lactic acid in cells.   |
| GM-Probe-AAVsensor-07 | AAV-NES(nuclear export signal) indicator(mTurquoise reporter) | NES(nuclear export signal), which is for export from the cell nucleus to the cytoplasm localization  |
| GM-Probe-AAVsensor-08 | AAV-Mito(mitochondrial) indicator(mTurquoise reporter)        | Mito (mitochondrial) localization  |
| GM-Probe-AAVsensor-09 | AAV-H2O2 biosensor(Laonic fluorescent protein)                | HyPer(Hydrogen peroxide sensor) is the first fully genetically encoded fluorescent sensor capable of detecting intracellular hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ), one of the main ROS generated by cells. HyPer demonstrates submicromolar affinity to hydrogen peroxide and is insensitive to other oxidants tested, such as superoxide, oxidized glutathione, nitric oxide, and peroxinitrite. HyPer does not cause artifactual ROS generation and can be used for detection of fast changes of H <sub>2</sub> O <sub>2</sub> concentration in different cell compartments under various physiological and pathological conditions. |

| Cat No.               | Name of Biosensors (BioProbes)                               | Biosensors/Bioprobes Description  |
|-----------------------|--|---|
| GM-Probe-AAVsensor-10 | AAV-Tubulin indicator(mTurquoise reporter)                   | Tubulin cytoskeletal localization   |
| GM-Probe-AAVsensor-11 | AAV-ER(endoplasmic reticulum) indicator(mTurquoise reporter) | ER(endoplasmic reticulum) localization  |
| GM-Probe-AAVsensor-12 | AAV-Membrane voltage(membrane potential) biosensor(VSFP)     | VSFP(voltagesensitive fluorescent protein) Butterfly fluorescent protein can accurately reflect the polarization, depolarization and other membrane potential changes of excitatory cells such as cardiomyocytes and neurons  |
| GM-Probe-AAVsensor-13 | AAV-High glucose concentration biosensor(Hglu)               | FLIPglu fluorescent protein can specifically and efficiently reflect the changes of glucose concentration in living cells, so as to reflect the influence of external factors on intracellular metabolism in real time. It can be used to study intracellular glucose metabolism rate and transmembrane transport rate.       |
| GM-Probe-AAVsensor-14 | AAV-Low glucose concentration biosensor(Lglu)                |   |
| GM-Probe-AAVsensor-15 | AAV-lysosome indicator(Lamp1-RFP fusion protein)             | Lamp1(lysosome associated membrane protein 1) is fused to RFP. Used for localization to the lysosome.   |
| GM-Probe-AAVsensor-16 | AAV-Mg2+ biosensor(Mag6)                                     | Mag6(Mag FRET fluorescence protein) can specifically and efficiently reflect the change of intracellular free Mg2+ concentration. Mg2+ is an important ion to maintain the stability of ATP and a catalyst for many proteins in cells to maintain enzyme activity. It regulates a lot of signal transduction processes.       |
| GM-Probe-AAVsensor-17 | AAV-ATP biosensor(ATeam1.03)                                 | ATeam1.03,a FRET-based ATP Fluorescent Biosensor, is an Adenosine 5-Triphosphate indicator based on Epsilon subunit for Analytical Measurements   |
| GM-Probe-AAVsensor-18 | AAV-mitochondrial autophagy indicator(mt-mKeima)             | Monomeric Keima (mKeima), a coral-derived acid-stable fluorescent protein that emits different-colored signals at acidic and neutral pHs. The mitochondrial mKeima(mt-mKeima) can be shown to enter the lysosome mitochondria through the autophagy pathway, so as to directly reflect the degree of mitochondrial autophagy. |
| GM-Probe-AAVsensor-19 | AAV-Mito(mitochondrial)indicator(DsRed reporter)             | The mitochondrial targeting sequence from subunit VIII of human cytochrome c oxidase (Mito) is fused to the 5'-end of DsRed,which is designed for fluorescent labeling of mitochondria.   |

## Optogenetics Adeno Associated Virus (AAV) premade products

| Cat No.    | Products Name                            |
|------------|--|
| pGM-AVP001 | pGM-AAV-CAG-DIO-EYFP                     |
| pGM-AVP002 | pGM-AAV-CAG-DIO-eNpHR3.0-EYFP            |
| pGM-AVP003 | pGM-AAV-CAG-DIO-hChr2(H134R)-T2A-mcherry |
| pGM-AVP004 | pGM-AAV-CAG-DIO-Arch3.0-EYFP             |
| pGM-AVP005 | pGM-AAV-CAG-DIO-hCHETA-EYFP              |
| pGM-AVP006 | pGM-AAV-CAG-DIO-hM4Di-mcherry            |
| pGM-AVP007 | pGM-AAV-CAG-DIO-hM3DQ-mcherry            |
| pGM-AVP008 | pGM-AAV-CAG-DIO-DTR-T2A-mcherry          |
| pGM-AVP009 | pGM-AAV-hsyn-T2A-EYFP                    |
| pGM-AVP010 | pGM-AAV-hsyn-Arch3.0-EYFP                |
| pGM-AVP011 | pGM-AAV-hsyn-hCHETA-EYFP                 |
| pGM-AVP012 | pGM-AAV-hsyn-DIO-hM3DQ-mcherry           |
| pGM-AVP013 | pGM-AAV-hsyn-DIO-hM4Di-mcherry           |
| pGM-AVP014 | pGM-AAV-hsyn-eNpHR3.0-EYFP               |
| pGM-AVP015 | pGM-AAV-hsyn-hChr2(H134R)-mcherry        |
| pGM-AVP016 | pGM-AAV-hsyn-hM3DQ-T2A-mcherry           |
| pGM-AVP017 | pGM-AAV-hsyn-hM4Di-T2A-mcherry           |
| pGM-AVP018 | pGM-AAV-hsyn-DTR-T2A-RFP                 |
| pGM-AVP019 | pGM-AAV-hsyn-DTA-T2A-mcherry             |
| pGM-AVP020 | pGM-AAV-CamkII-EYFP                      |
| pGM-AVP021 | pGM-AAV-CamkII-eNpHR3.0-EYFP             |
| pGM-AVP022 | pGM-AAV-CamkII-hChr2(H134R)-mcherry      |
| pGM-AVP023 | pGM-AAV-CamkII-Arch3.0-EYFP              |
| pGM-AVP024 | pGM-AAV-CamkII-hCHETA-EYFP               |
| pGM-AVP025 | pGM-AAV-CamkII-DTR-T2A-mcherry           |
| pGM-AVP026 | pGM-AAV-CamkII-hM3DQ-T2A-mcherry         |
| pGM-AVP027 | pGM-AAV-CamkII-hM4Di-T2A-mcherry         |
| pGM-AVP028 | pGM-AAV-CamkII-DIO-hM3DQ-mcherry         |
| pGM-AVP029 | pGM-AAV-CamkII-DIO-hM4Di-mcherry         |
| pGM-AVP030 | pGM-AAV-CAG-DIO-Gcamp6s                  |
| pGM-AVP031 | pGM-AAV-CAG-DIO-Gcamp6f                  |
| pGM-AVP032 | pGM-AAV-hsyn-Gcamp6s                     |
| pGM-AVP033 | pGM-AAV-hsyn-Gcamp6f                     |
| pGM-AVP034 | pGM-AAV-CamkII-Gcamp6s                   |
| pGM-AVP035 | pGM-AAV-CamkII-Gcamp6f                   |
| pGM-AVP049 | pGM-AAV-GFAP-hM4D(Gi)-mCherry            |
| pGM-AVP050 | pGM-AAV-GFAP-hM3D(Gq)-mCherry            |
| pGM-AVP051 | pGM-AAV-CAG-T2A-EYFP                     |
| pGM-AVP052 | pGM-AAV-GFAP-eNpHR3.0-EYFP               |
| pGM-AVP053 | pGM-AAV-GFAP-hChr2(H134R)-mcherry        |
| pGM-AVP054 | pGM-AAV-GFAP-Arch3.0-EYFP                |
| pGM-AVP055 | pGM-AAV-GFAP-hCHETA-EYFP                 |
| pGM-AVP056 | pGM-AAV-GFAP-DTR-T2A-mcherry             |
| pGM-AVP057 | pGM-AAV-CAG-DIO-C1V1(t/t)-TS-mcherry     |
| pGM-AVP058 | pGM-AAV-CMV-DIO-C1V1(t/t)-TS-mcherry     |
| pGM-AVP059 | pGM-AAV-hSyn-DIO-C1V1(t/t)-TS-mcherry    |
| pGM-AVP060 | pGM-AAV-GFAP-DIO-C1V1(t/t)-TS-mcherry    |
| pGM-AVP061 | pGM-AAV-CaMKII-DIO-C1V1(t/t)-TS-mcherry  |
| pGM-AVP062 | pGM-AAV-GFAP-DIO-C1V1(t/t)-TS-mcherry    |
| pGM-AVP063 | pGM-AAV-GFAP-ArchT-EYFP                  |
| pGM-AVP064 | pGM-AAV-CAG-ArchT-EYFP                   |
| pGM-AVP065 | pGM-AAV-CMV-ArchT-EYFP                   |
| pGM-AVP066 | pGM-AAV-hSyn-ArchT-EYFP                  |
| pGM-AVP067 | pGM-AAV-CaMKII-ArchT-EYFP                |



## Pre-made control lentiviral vector (lentivirus with vsv-G envelop) particles with fluorescent labels and antibiotics resistance

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| Cat No.    | Expression     | Name of Vectors                               | Protomer | Reporter   | Cre-dependent | TAG (unfusion)    |
|------------|----------------|---|----------|------------|---------------|-------------------|
| GMVP-LVc1  | Overexpression | pCDH-MSCV-MCS-EF1-copGFP-T2A-Puromycin        | MSCV     | copGFP     | Puromycin     | NULL              |
| GMVP-LVc2  | Overexpression | pGMLV-CMV-Circ-MCS-EF1-ZsGreen-T2A-Puromycin  | CMV      | ZsGreen    | Puromycin     | NULL              |
| GMVP-LVc3  | Overexpression | pGMLV-CMV-MCS-3flag-EF1-fLUC-T2A-Puromycin    | CMV      | Luciferase | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc4  | Overexpression | pGMLV-CMV-MCS-EF1-fLUC-T2A-Puromycin          | CMV      | Luciferase | Puromycin     | NULL              |
| GMVP-LVc5  | Overexpression | pGMLV-CMV-MCS-EF1-mCherry-T2A-Puromycin       | CMV      | mCherry    | Puromycin     | NULL              |
| GMVP-LVc6  | Overexpression | pGMLV-CMV-MCS-3flag-EF1-mCherry-T2A-Puromycin | CMV      | mCherry    | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc7  | Overexpression | pGMLV-CMV-MCS-EF1-Puromycin                   | CMV      | Null       | Puromycin     | NULL              |
| GMVP-LVc8  | Overexpression | pGMLV-CMV-MCS-3flag-EF1-Puromycin             | CMV      | Null       | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc9  | Overexpression | pGMLV-CMV-MCS-3flag-T2A-ZsGreen               | CMV      | ZsGreen    | Null          | 3FLAG(C-terminal) |
| GMVP-LVc10 | Overexpression | pGMLV-CMV-MCS-T2A-ZsGreen                     | CMV      | ZsGreen    | Null          | NULL              |
| GMVP-LVc11 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen-T2A-Puromycin | CMV      | ZsGreen    | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc12 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-Puromycin       | CMV      | ZsGreen    | Puromycin     | NULL              |
| GMVP-LVc13 | Overexpression | pGMLV-CMV-MCS-T2A-Puromycin                   | CMV      | Null       | Puromycin     | NULL              |
| GMVP-LVc14 | Overexpression | pGMLV-CMV-MCS-dsRed-PGK-Puromycin             | CMV      | dsRed      | Puromycin     | NULL              |
| GMVP-LVc15 | Overexpression | pGMLV-CMV-MCS-IRES-Puromycin                  | CMV      | Null       | Puromycin     | NULL              |
| GMVP-LVc16 | Overexpression | pGMLV-CMV-MCS-IRES-ZsGreen                    | CMV      | ZsGreen    | Null          | NULL              |
| GMVP-LVc17 | Overexpression | pGMLV-CMV-MCS-PGK-ZsGreen                     | CMV      | ZsGreen    | Null          | NULL              |
| GMVP-LVc18 | Overexpression | pGMLV-CMV-MCS-PGK-Puromycin-IRES-ZsGreen      | CMV      | ZsGreen    | Puromycin     | NULL              |
| GMVP-LVc19 | shRNA for RNAi | pGMLV-U6-MCS-PGK-Puromycin                    | U6       | Null       | Puromycin     | NULL              |

| Cat No.    | Expression     | Name of Vectors                        | Protomer | Reporter            | Cre-dependent | TAG (unfusion) |
|------------|----------------|--|----------|---------------------|---------------|----------------|
| GMVP-LVc20 | shRNA for RNAi | pGMLV-U6-MCS-CMV-ZsGreen               | U6       | ZsGreen             | Null          | NULL           |
| GMVP-LVc21 | shRNA for RNAi | pGMLV-U6-MCS-CMV-ZsGreen-PGK-Puromycin | U6       | ZsGreen             | Puromycin     | NULL           |
| GMVP-LVc22 | Overexpression | pGMLV-EM7-MCS-Ubc-rtTA3-Puromycin      | EM7      | Null                | Puromycin     | NULL           |
| GMVP-LVc23 | Overexpression | pGMLV-PGK-Puromycin-Tnl-EGFP           | PGK      | EGFP                | Puromycin     | NULL           |
| GMVP-LVc24 | Overexpression | pGMLV-CMV-MCS-PGK-RFP                  | CMV      | RFP                 | Null          | NULL           |
| GMVP-LVc25 | Overexpression | pGMLV-CMV-MCS-PGK-Z418                 | CMV      | Null                | Z418          | NULL           |
| GMVP-LVc26 | shRNA for RNAi | pGMLV-U6-MCS-PGK-BSD                   | U6       | Null                | Blasticidin   | NULL           |
| GMVP-LVc27 | Overexpression | pGMLV-TetOn-SV40-Puromycin-TRE3GS-MCS  | TRE3GS   | Null                | Puromycin     | NULL           |
| GMVP-LVc28 | shRNA for RNAi | pGMLV-U6-MCS-hPGK-Puromycin            | U6       | Null                | Puromycin     | NULL           |
| GMVP-LVc29 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Luc          | CMV      | RFP /Luciferase     | Null          | NULL           |
| GMVP-LVc30 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Puromycin    | CMV      | RFP                 | Puromycin     | NULL           |
| GMVP-LVc31 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-Luc      | CMV      | ZsGreen /Luciferase | Null          | NULL           |
| GMVP-LVc32 | shRNA for RNAi | pGMLV-U6-MCS-EF1-Luc-T2A-Puromycin     | U6       | Luciferase          | Puromycin     | NULL           |
| GMVP-LVc33 | shRNA for RNAi | pGMLV-U6-MCS-EF1-RFP-T2A-Luc           | U6       | RFP /Luciferase     | Null          | NULL           |
| GMVP-LVc34 | shRNA for RNAi | pGMLV-U6-MCS-EF1-RFP-T2A-Puromycin     | U6       | RFP                 | Puromycin     | NULL           |
| GMVP-LVc35 | shRNA for RNAi | pGMLV-U6-MCS-EF1-ZsGreen-T2A-Luc       | U6       | ZsGreen /Luciferase | Null          | NULL           |
| GMVP-LVc36 | shRNA for RNAi | pGMLV-U6-MCS-EF1-ZsGreen-T2A-BSD       | U6       | ZsGreen             | Blasticidin   | NULL           |
| GMVP-LVc37 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-BSD      | CMV      | ZsGreen             | Blasticidin   | NULL           |
| GMVP-LVc38 | shRNA for RNAi | pGMLV-U6-MCS-EF1-fLuc-T2A-mCherry      | U6       | mCherry /Luciferase | Null          | NULL           |
| GMVP-LVc39 | Overexpression | pGMLV-CMV-MCS-EF1-fLuc-T2A-mcherry     | CMV      | mCherry /Luciferase | Null          | NULL           |

| Cat No.    | Expression     | Name of Vectors                                  | Protomer | Reporter            | Cre-dependent | TAG (unfusion)    |
|------------|----------------|--|----------|---------------------|---------------|-------------------|
| GMVP-LVc40 | shRNA for RNAi | pGMLV-U6-MCS-EF1-fLuc-T2A-BSD                    | U6       | Luciferase          | Blasticidin   | NULL              |
| GMVP-LVc41 | shRNA for RNAi | pGMLV-U6-MCS-PGK-Z418                            | U6       | Null                | Z418          | NULL              |
| GMVP-LVc42 | Overexpression | pGMLV-CMV-MCS-fLUC-EF1-ZsGreen-T2A-Puromycin     | CMV      | ZsGreen /Luciferase | Puromycin     | NULL              |
| GMVP-LVc43 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen-T2A-Puromycin(I) | CMV      | ZsGreen             | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc44 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen-T2A-fLUC (I)           | CMV      | ZsGreen /Luciferase | Null          | NULL              |
| GMVP-LVc45 | shRNA for RNAi | pGMLV-U6-MCS-CMV-mCherry-P2A-BSD                 | U6       | mCherry             | Blasticidin   | NULL              |
| GMVP-LVc46 | shRNA for RNAi | pGMLV-U6-MCS-CMV-EGFP-P2A-BSD                    | U6       | EGFP                | Blasticidin   | NULL              |
| GMVP-LVc47 | Overexpression | pGMLV-CMV-DIO-ZsGreen-P2A-MCS-DIO-EF1-Puromycin  | CMV      | ZsGreen             | Puromycin     | NULL              |
| GMVP-LVc48 | Overexpression | pGMLV-CMV-MCS-P2A-ZsGreen                        | CMV      | ZsGreen             | Null          | NULL              |
| GMVP-LVc49 | gRNA           | pGMLV-U6-gRNA-EF1-Puromycin                      | U6       | Null                | Puromycin     | NULL              |
| GMVP-LVc50 | cas9/gRNA      | pGMLV-U6-gRNA-EF1-CAS9-Puromycin                 | U6       | Null                | Puromycin     | 1FLAG             |
| GMVP-LVc51 | shRNA for RNAi | pGMLV-U6-MCS-EF1-mCherry-T2A-Puromycin           | U6       | mCherry             | Puromycin     | NULL              |
| GMVP-LVc52 | Overexpression | pGMLV-CMV-MCS-EF1-ZsGreen                        | CMV      | ZsGreen             | Null          | NULL              |
| GMVP-LVc53 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-ZsGreen                  | CMV      | ZsGreen             | Null          | 3FLAG(C-terminal) |
| GMVP-LVc54 | Overexpression | pCDH-MSCV-MCS-3flag-EF1-copGFP-T2A-Puromycin     | MSCV     | copGFP              | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc55 | gRNA           | pGMLV-U6-gRNA-EF1-ZsGreen                        | U6       | ZsGreen             | Null          | NULL              |
| GMVP-LVc56 | Overexpression | pGMLV-CMV-MCS-EF1-fLUC-T2A-BSD                   | CMV      | Luciferase          | Blasticidin   | NULL              |
| GMVP-LVc57 | Overexpression | pGMLV-CMV-MCS-EF1-Cas9-P2A-BSD                   | CMV      | Null                | Blasticidin   | NULL              |
| GMVP-LVc58 | Overexpression | pGMLV-CMV-MCS-EF1-RFP-T2A-Hygro                  | CMV      | RFP                 | hygro         | NULL              |
| GMVP-LVc59 | shRNA for RNAi | pGMLV-U6-CMV-RFP-P2A-BSD-N                       | U6       | RFP                 | Blasticidin   | NULL              |

| Cat No.    | Expression          | Name of Vectors                          | Protomer | Reporter      | Cre-dependent | TAG (unfusion)    |
|------------|---------------------|--|----------|---------------|---------------|-------------------|
| GMVP-LVc60 | Overexpression      | pGMLV-CMV-EF1-ZsGreen-P2A-BSD            | CMV      | ZsGreen       | Blasticidin   | NULL              |
| GMVP-LVc61 | Overexpression      | pGMLV-CMV-MCS-T2A-mCherry                | CMV      | mCherry       | Null          | NULL              |
| GMVP-LVc62 | shRNA for RNAi      | pGMLV-U6-CMV-EGFP-P2A-BSD                | U6       | EGFP          | Blasticidin   | NULL              |
| GMVP-LVc63 | Overexpression      | pGMLV-DIO-ZsGreen-P2A-MCS-DIO-Puromycin  | CMV      | ZsGreen       | Puromycin     | NULL              |
| GMVP-LVc64 | Overexpression      | pGMLV-CMV-EF1-ZsGreen-P2A-Puromycin      | CMV      | ZsGreen       | Puromycin     | NULL              |
| GMVP-LVc65 | Overexpression      | pGMLV-CMV-P2A-ZsGreen-P2A-Puromycin      | CMV      | ZsGreen       | Puromycin     | NULL              |
| GMVP-LVc66 | Overexpression      | pGMLV-MCS-EF1-ZsGreen-T2A-Puromycin      | Null     | ZsGreen       | Puromycin     | NULL              |
| GMVP-LVc67 | LC3 single reporter | pGMLV-CMV-EGFP-LC3-T2A-Puromycin         | CMV      | EGFP          | Puromycin     | NULL              |
| GMVP-LVc68 | LC3 double reporter | pGMLV-CMV-mCherry-EGFP-LC3-T2A-Puromycin | CMV      | EGFP /mCherry | Puromycin     | NULL              |
| GMVP-LVc69 | cas9/gRNA           | pGMLV-U6-scramble-EF1-cas9-Puromycin     | U6       | Null          | Puromycin     | NULL              |
| GMVP-LVc70 | cas9/gRNA           | pGMLV-U6-scramble-CMV-Cas9-T2A-ZsGreen   | U6       | ZsGreen       | Null          | NULL              |
| GMVP-LVc71 | cas9/gRNA           | pGMLV-U6-scramble-EF1-Cas9-P2A-ZsGreen   | U6       | ZsGreen       | Null          | NULL              |
| GMVP-LVc72 | Overexpression      | pGMLV-CMV-MCS-EF1-Z418                   | CMV      | Null          | Z418          | NULL              |
| GMVP-LVc73 | Overexpression      | pGMLV-CMV-MCS-3flag-EF1-mCherry-P2A-BSD  | CMV      | mCherry       | Blasticidin   | 3FLAG(C-terminal) |
| GMVP-LVc74 | shRNA for RNAi      | pGMLV-U6-MCS-PGK-Z418(E)                 | U6       | Null          | Z418          | NULL              |
| GMVP-LVc75 | shRNA for RNAi      | pGMLV-U6-gRNA-PGK-BSD                    | U6       | Null          | Blasticidin   | NULL              |
| GMVP-LVc76 | Overexpression      | pGMLV-EF1-T2A-MCS-ZsGreen                | EF1      | ZsGreen       | Null          | NULL              |
| GMVP-LVc77 | cas9/gRNA           | pGMLV-U6-gRNA-EF1-mCherry-BSD            | U6       | mCherry       | Blasticidin   | NULL              |
| GMVP-LVc78 | Overexpression      | pGMLV-CMV-DIO-EF1-Puromycin              | CMV      | Null          | Puromycin     | NULL              |
| GMVP-LVc79 | Overexpression      | pGMLV-CMV-Circ-MCS-EF1-ZsGreen           | CMV      | ZsGreen       | Null          | NULL              |

| Cat No.    | Expression     | Name of Vectors                               | Protomer | Reporter         | Cre-dependent | TAG (unfusion)    |
|------------|----------------|---|----------|------------------|---------------|-------------------|
| GMVP-LVc80 | Overexpression | pGMLV-CMV-cre-3flag-EF1-ZsGreen-T2A-Puromycin | CMV      | ZsGreen          | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc81 | Overexpression | pGMLV-EF1-MCS-CMV-Puromycin                   | EF1      | Null             | Puromycin     | NULL              |
| GMVP-LVc82 | Overexpression | pGMLV-EF1-MCS-CMV-ZsGreen                     | EF1      | ZsGreen          | Null          | NULL              |
| GMVP-LVc83 | Overexpression | pGMLV-EF1-MCS-CMV-ZsGreen-T2A-Puromycin       | EF1      | ZsGreen          | Puromycin     | NULL              |
| GMVP-LVc84 | Overexpression | pGMLV-EF1-MCS-P2A-ZsGreen-P2A-Puromycin       | EF1      | ZsGreen          | Puromycin     | NULL              |
| GMVP-LVc85 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-mcherry               | CMV      | mCherry          | Null          | 3FLAG(C-terminal) |
| GMVP-LVc86 | Overexpression | pGMLV-CMV-MCS-3flag-EF1-eRFP-T2A-Puromycin    | CMV      | eRFP             | Puromycin     | 3FLAG(C-terminal) |
| GMVP-LVc87 | shRNA for RNAi | pGMLV-U6-MCS-EF1-eRFP-T2A-Puromycin           | U6       | eRFP             | Puromycin     | NULL              |
| GMVP-LVc88 | Overexpression | pGMLV-CMV-eRFP-EGFP-LC3-T2A -Puromycin        | CMV      | eRFP/EGFP        | Puromycin     | NULL              |
| GMVP-LVc89 | Overexpression | pGMLV-CMV-circ-EF1-copGFP-Puromycin           | CMV      | copGFP           | Puromycin     | NULL              |
| GMVP-LVc90 | Overexpression | pGMLV-CMV-LUC-EF1-eRFP-T2A-Puromycin          | CMV      | eRFP /Luciferase | Puromycin     | NULL              |
| GMVP-LVc91 | Overexpression | pGMLV-CMV-circ-EF1-ZsGreen-T2A-Puromycin-N    | CMV      | ZsGreen          | Puromycin     | NULL              |

| Virus type                      | Vector               | Promoter | Promoter Description    | Cre Dependent Expression | Label      |
|---------------------------------|----------------------|----------|-------------------------|--------------------------|------------|
| Luciferase label control virus  | AAV-CMV-Luciferase   | CMV      | General and strong      | Null                     | Luciferase |
| Luciferase label control virus  | AAV-TBG-Luciferase   | TBG      | Liver specific          | Null                     | Luciferase |
| Fluorescent label control virus | AAV-CMV-EGFP         | CMV      | General and strong      | Null                     | EGFP       |
| Fluorescent label control virus | AAV-CMV-mCherry      | CMV      | General and strong      | Null                     | mCherry    |
| Fluorescent label control virus | AAV-CMV-DIO-EGFP     | CMV      | General and strong      | DIO                      | EGFP       |
| Fluorescent label control virus | AAV-Null             | CMV      | General and strong      | Null                     | Null       |
| Fluorescent label control virus | AAV-CAG-ZsGreen      | CAG      | General and strong      | Null                     | ZsGreen    |
| Fluorescent label control virus | AAV-CAG-DIO-EGFP     | CAG      | General and strong      | DIO                      | EGFP       |
| Fluorescent label control virus | AAV-hSyn-DIO-ZsGreen | Syn      | Neuron specific         | DIO                      | ZsGreen    |
| Fluorescent label control virus | AAV-hSyn-DIO-mCherry | Syn      | Neuron specific         | DIO                      | mCherry    |
| Fluorescent label control virus | AAV-hsyn-ZsGreen     | Syn      | Neuron specific         | Null                     | ZsGreen    |
| Fluorescent label control virus | AAV-hsyn-mCherry     | Syn      | Neuron specific         | Null                     | mCherry    |
| Fluorescent label control virus | AAV-CamKII-ZsGreen   | CamKII   | Neuron specific         | Null                     | ZsGreen    |
| Fluorescent label control virus | AAV-CamKII-mCherry   | CamKII   | Neuron specific         | Null                     | mCherry    |
| Fluorescent label control virus | AAV-GFAP-EGFP        | GFAP     | Astrocyte specific      | Null                     | EGFP       |
| Fluorescent label control virus | AAV-cTNT-ZsGreen     | cTNT     | Cardiomyocytes specific | Null                     | ZsGreen    |
| Fluorescent label control virus | AAV-TBG-zsGreen      | TBG      | Liver specific          | Null                     | ZsGreen    |
| Cre recombinase virus           | AAV-CMV-Cre          | CMV      | General and strong      | Null                     | Null       |
| Cre recombinase virus           | AAV-CMV-Cre-EGFP     | CMV      | General and strong      | Null                     | EGFP       |
| Cre recombinase virus           | AAV-CAG-Cre          | CAG      | General and strong      | Null                     | Null       |
| Cre recombinase virus           | AAV-CAG-Cre-EGFP     | CAG      | General and strong      | Null                     | EGFP       |
| Cre recombinase virus           | AAV-Syn-Cre          | Syn      | Neuron specific         | Null                     | Null       |
| Cre recombinase virus           | AAV-Syn-Cre-EGFP     | Syn      | Neuron specific         | Null                     | EGFP       |
| Cre recombinase virus           | AAV-CaMKII-Cre       | CaMKII   | Neuron specific         | Null                     | Null       |
| Cre recombinase virus           | AAV-CaMKII-Cre-EGFP  | CaMKII   | Neuron specific         | Null                     | EGFP       |
| Cre recombinase virus           | AAV-GFAP-Cre         | GFAP     | Astrocyte specific      | Null                     | Null       |
| Cre recombinase virus           | AAV-GFAP-Cre-EGFP    | GFAP     | Astrocyte specific      | Null                     | EGFP       |
| Cre recombinase virus           | AAV-cTNT-Cre         | cTNT     | Cardiomyocytes specific | Null                     | Null       |
| Cre recombinase virus           | AAV-cTNT-Cre-EGFP    | cTNT     | Cardiomyocytes specific | Null                     | EGFP       |
| Cre recombinase virus           | AAV-TBG-Cre          | TBG      | Liver specific          | Null                     | Null       |
| Cre recombinase virus           | AAV-TBG-Cre-EGFP     | TBG      | Liver specific          | Null                     | EGFP       |

## Pre-made control adenovirus vector (ad5) particles with fluorescent labels

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| Cat No.     | Expression                    | Name of Vectors                      | Protomer | Reporter         | Cre-dependent | TAG (unfusion)    |
|-------------|-------------------------------|--------------------------------------|----------|------------------|---------------|-------------------|
| GMVP-AdVc1  | overexpression                | pGMAd-EF1a-MCS-CMV-EGFP              | EF1a     | EGFP             | Null          | NULL              |
| GMVP-AdVc2  | overexpression                | pGMAd-EF1a-MCS-3flag-CMV-EGFP        | EF1a     | EGFP             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc3  | overexpression                | pGMAd-EF1a-MCS-CMV-RFP               | EF1a     | RFP              | Null          | NULL              |
| GMVP-AdVc4  | overexpression/shRNA for RNAi | pGMAd-U6-MCS-CMV-MCS                 | U6/CMV   | Null             | Null          | NULL              |
| GMVP-AdVc5  | overexpression                | pGMAd-U6-MCS-CMV-MCS-3flag           | U6/CMV   | Null             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc6  | overexpression                | pGMAd-EF1-MCS-CMV-Puromycin          | EF1a     | Null             | Puromycin     | NULL              |
| GMVP-AdVc7  | overexpression                | pGMAd-MCMV-MCS-CMV-EGFP              | MCMV     | EGFP             | Null          | NULL              |
| GMVP-AdVc8  | overexpression                | pGMAd-MCMV-MCS-3Flag-CMV-EGFP        | MCMV     | EGFP             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc9  | overexpression                | pGMAd-MCMV-MCS-CMV-RFP               | MCMV     | RFP              | Null          | NULL              |
| GMVP-AdVc10 | overexpression                | pGMAd-MCMV-MCS-3flag-CMV-RFP         | MCMV     | RFP              | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc11 | overexpression                | pGMAd-MCMV-MCS-CMV-Luc               | MCMV     | luciferaseferase | Null          | NULL              |
| GMVP-AdVc12 | circRNAoverexpression         | pGMAd-EF1a-circRNA-CMV-EGFP          | EF1a     | EGFP             | Null          | NULL              |
| GMVP-AdVc13 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-EGFP                | U6       | EGFP             | Null          | NULL              |
| GMVP-AdVc14 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-RFP                 | U6       | RFP              | Null          | NULL              |
| GMVP-AdVc15 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-Luc                 | U6       | luciferaseferase | Null          | NULL              |
| GMVP-AdVc16 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-Puromycin           | U6       | Null             | Puromycin     | NULL              |
| GMVP-AdVc17 | Cas9/gRNAfor Konckout         | pGMAd-U6-gRNA-CMV-Cas9-T2A-ZsGreen   | U6       | ZsGreen          | Null          | NULL              |
| GMVP-AdVc18 | shRNA for RNAi                | pGMAd-U6-MCS-CMV-EGFP- $\Delta$ loxp | U6       | EGFP             | Null          | NULL              |

| Cat No.     | Expression            | Name of Vectors                           | Protomer | Reporter         | Cre-dependent | TAG (unfusion)    |
|-------------|-----------------------|---|----------|------------------|---------------|-------------------|
| GMVP-AdVc19 | overexpression        | pGMAd-EF1-MCS-3flag-CMV-EGFP-Δloxp        | EF1a     | EGFP             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc20 | overexpression        | pGMAd-EF1-MCS-CMV-Puromycin-Δloxp         | EF1a     | Null             | Puromycin     | NULL              |
| GMVP-AdVc21 | circRNAoverexpression | pGMAd-EF1-CircRNA-CMV-EGFP-Δloxp          | EF1a     | EGFP             | Null          | NULL              |
| GMVP-AdVc22 | overexpression        | pGMAd-EF1-MCS-CMV-EGFP-Δloxp              | EF1a     | EGFP             | Null          | NULL              |
| GMVP-AdVc23 | overexpression        | pGMAd-EF1-MCS-3flag-CMV-mCherry-Δloxp     | EF1a     | mCherry          | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc24 | overexpression        | pGMAd-EF1-MCS-3flag-CMV-Luc-Δloxp         | EF1a     | Luc              | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc25 | overexpression        | PGMAd-EF1-MCS-3flag-CMV-EYFP              | EF1a     | EYFP             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc26 | shRNA for RNAi        | pGMAd-U6-MCS-CMV-mCherry                  | U6       | mCherry          | Null          | NULL              |
| GMVP-AdVc27 | shRNA for RNAi        | pGMAd-U6-gRNA-CMV-Cas9                    | U6       | Null             | Null          | NULL              |
| GMVP-AdVc28 | gRNAfor Konckout      | pGMAd-U6-gRNA-CMV-mCherry                 | U6       | mCherry          | Null          | NULL              |
| GMVP-AdVc29 | gRNAfor Konckout      | pGMAd-U6-gRNA-CMV-EGFP                    | U6       | EGFP             | Null          | NULL              |
| GMVP-AdVc30 | overexpression        | pGMAd-EF1-CircRNA                         | EF1a     | Null             | Null          | NULL              |
| GMVP-AdVc31 | shRNA for RNAi        | pGMAD-U6-MCS-CMV-LUC                      | U6       | luciferaseferase | Null          | NULL              |
| GMVP-AdVc32 | overexpression        | pGMAd-GFAP-T2A-EGFP                       | GFAP     | EGFP             | Null          | NULL              |
| GMVP-AdVc33 | gRNAfor Konckout      | pGMAd-U6-gRNA-CMV-mCherry(mutant)         | U6       | mCherry          | Null          | NULL              |
| GMVP-AdVc34 | gRNAfor Konckout      | pGMAd-U6-gRNA-CMV-Cas9-T2A-ZsGreen (ΔNLS) | U6       | ZsGreen          | Null          | NULL              |
| GMVP-AdVc35 | gRNAfor Konckout      | pGMAd-U6-gRNA-CMV-Cas9 (ΔNLS)             | U6       | Null             | Null          | NULL              |
| GMVP-AdVc36 | overexpression        | pGMAD-EF1-MCS-3flag-CMV-eRFP-Δloxp        | EF1a     | eRFP             | Null          | 3FLAG(C-terminal) |
| GMVP-AdVc37 | shRNA for RNAi        | pGMAd-U6-MCS-CMV-eRFP                     | U6       | eRFP             | Null          | NULL              |



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| <a href="#">Landscape of gene delivery in vitro &amp; in vivo</a>   | <a href="#">Protocol/Method for AAV-mediated gene delivery in vivo</a>   | <a href="#">Protocol for cell transfection</a>   |
| <a href="#">Lentivirus User manual (stable cell line development) </a> | <a href="#">AAV User manual </a>                                    | <a href="#">Adenovirus User manual </a>                                 |
| <a href="#">Crispr/cas9 mediated Gene knockout </a>                    | <a href="#">Lentivirus-CRISPR/Cas9 Knockout System-User Manual </a> | <a href="#">AAV Production CRISPR/Cas9 Knockout System-User Manual </a> |
| <a href="#">Adenovirus CRISPR/Cas9 Knockout System-User Manual </a>    |  |  |

## Knowledge base for gene&cell therapy

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