

## Product datasheet for **RC204325A1V**

### Human beta glucuronidase (GUSB) (NM\_000181) AAV Particle

#### Product data:

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Product Type:             | AAV Particles                                            |
| Product Name:             | Human beta glucuronidase (GUSB) (NM_000181) AAV Particle |
| Tag:                      | Myc-DDK                                                  |
| Symbol:                   | GUSB                                                     |
| Synonyms:                 | BG; MPS7                                                 |
| Mammalian Cell Selection: | None                                                     |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                               |



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## ORF Nucleotide Sequence:

>RC204325 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCCGGGGTGCGCGGTTGCCTGGGCGGCGCTCGGGCCGTTGTTGTGGGGCTGCGCGCTGGGGCTGC  
AGGGCGGGATGCTGTACCCCGAGGAGAGCCGTCGCGGGAGTGCAAGGAGCTGGACGGCCCTCTGGAGCTT  
CCGCGCGGACTTCTCTGACAACCGACGCGGGGCTTCGAGGAGCAGTGGTACCGCGGCCGCTGTGGGAG  
TCAGGCCCCACCGTGGACATGCCAGTTCCTCCAGCTTCAATGACATCAGCCAGGACTGGCGTCTGCGGC  
ATTTTGTGCGGTGGGTGTGGTACGAACGGGAGGTGATCCTGCCGAGCGATGGACCCAGGACCTGCGCAC  
AAGAGTGGTGCTGAGGATTGGCAGTGCCATTCTATGCCATCGTGTGGGTGAATGGGGTCGACACGCTA  
GAGCATGAGGGGGCTACCTCCCTTCGAGGCCGACATCAGCAACCTGGTCCAGGTGGGGCCCTGCCCT  
CCCGGCTCCGAATCACTATCGCCATCAACAACACACTCACCCACCACCCTGCCACCAGGGACCATCCA  
ATACCTGACTGACACCTCCAAGTATCCCAAGGGTTACTTTGTCCAGAACACATATTTTGACTTTTCAAC  
TAGCTGGACTGCAGCGGTCTGTACTTCTGTACACGACCCACCACCTACATCGATGACATCACCGTCA  
CCACCAGCGTGGAGCAAGACAGTGGGCTGGTGAATTACCAGATCTCTGTCAAGGGCAGTAACCTGTTCAA  
GTTGGAAGTGCGTCTTTTGGATGCAGAAAAAAGTCGTGGCGAATGGGACTGGGACCCAGGGCCAACTT  
AAGGTGCCAGGTGTCAGCCTCTGGTGGCCGTACCTGATGCACGAACGCCCTGCCTATCTGTATTCATTGG  
AGGTGCAGTGAAGTGCACAGACGTCAGTGGGGCTGTGTCTGACTTCTACACACTCCCTGTGGGGATCCG  
CACTGTGGCTGTCAACAAGAGCCAGTTCCTCATCAATGGGAAACCTTTCTATTTCCACGGTGTCAACAAG  
CATGAGGATGCGGACATCCGAGGGAAGGGCTTCGACTGGCCGCTGCTGGTGAAGGACTTCAACCTGCTTC  
GCTGGCTTGGTGCCAACGCTTTCCGTACCAGCCACTACCCCTATGCAGAGGAAGTGATGCAGATGTGTGA  
CCGCTATGGGATTGTGGTCATCGATGAGTGTCCCGGCGTGGGCTGGCGCTGCCGAGTTCTTCAACAAC  
GTTTCTCTGCATCACCATGCAGGTGATGGAAGAAGTGGTGCCTAGGGACAAGAACCACCCCGCGGTGCG  
TGATGTGGTCTGTGGCAACGAGCCTGCGTCCACCTAGAATCTGCTGGCTACTACTTGAAGATGGTGAT  
CGCTCACACCAAATCCTTGGACCCCTCCCGGCTGTGACCTTTGTGAGCAACTCTAACTATGCAGCAGAC  
AAGGGGGCTCCGTATGTGGATGTGATCTGTTTGAACAGTACTACTCTTGGTATCACGACTACGGGCACC  
TGGAGTTGATTACAGTGCAGCTGGCCACCCAGTTTGAAGTGGTATAAGAAGTATCAGAAGCCATTAT  
TCAGAGCGAGTATGGAGCAGAACGATTGCAGGGTTTACCAGGATCCACCTCTGATGTTCACTGAAGAG  
TACCAGAAAAGTCTGCTAGAGCAGTACCATCTGGGTCTGGATCAAAAACGCAGAAAATACGTGGTTGGAG  
AGCTCATTTGGAATTTTCCCGATTTTATGACTGAACAGTCAACGACGAGAGTGCTGGGGAATAAAAAGGG  
GATCTTCACTCGGCAGAGACAACCAAAAAGTGACGCGTTCTTTTGCAGAGAGATACTGGAAGATTGCC  
AATGAAACCAGGTATCCCACTCAGTAGCCAAGTCACAATGTTTGGAAAACAGCCTGTTTACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC204325 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MARGSAVAWAALGPLLWGCALGLQGGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFEEQWYRRPLWE<br/> SGPTVDMPVPSSFNDISQDWRLRHFGVWVYEREVILPERWTQDLRTRVVLRIGSAHSYAIWVNGVDL<br/> EHGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTLPPGTIQYLTDTSKYPKGYFVQNTYFDFFN<br/> YAGLQRSVLLYTPTTYIDDITVTTTSVEQDSGLVNYQISVKGSNLFKLEVRLLDAENKVVANGTGTQGQL<br/> KVPGVSLWWPYLMHERPAYLYSLEVQLTAQTSLGPVSDFYTLPGIRTVAVTKSQFLINGKPFYFHGVNK<br/> HEDADIRGKGFDWPLLVKDFNLLRWLGANAFRTSHYPYAEVVMQCDRYGIVVIDECPGVGLALPQFFNN<br/> VSLHHMQVMEEVVRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKSLDPSRPVTFVSNNSYAAD<br/> KGAPYVDVICLSYYSWYHDYGHLELIQLLATQFENWYKKYQKPIIQSEYGAETIAGFHQDPPLMFTEE<br/> YQKSLLEQYHLGLDQKRRKYVVGELIWNFADFMTQSPTRVLGNKKGIFTRQRQPKSAFLLRERYWKIA<br/> NETRYPHSVAKSQCLENSLFT</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ACCN:             | NM_000181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ORF Size:         | 1953 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Buffer:           | PBS with 0.001% Pluronic F5556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Stability:        | AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.                                                                                                                                                                                                                                                                                                                                                                   |
| RefSeq:           | <u>NM_000181.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq Size:      | 2321 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RefSeq ORF:       | 1956 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Locus ID:         | 2990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UniProt ID:       | <u>P08236</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cytogenetics:     | 7q11.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MW:               | 74.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |