

## Product datasheet for **RC225734A1V**

### Human **MGAT1** (NM\_001114619) AAV Particle

#### Product data:

|                |                                                   |
|----------------|---------------------------------------------------|
| Product Type:  | AAV Particles                                     |
| Tag:           | Myc-DDK                                           |
| Symbol:        | MGAT1                                             |
| Synonyms:      | GLCNAC-TI; GLCTI; GLYTI; GNT-I; GNT-I; GnTI; MGAT |
| Mammalian Cell | None                                              |
| Selection:     |                                                   |
| Vector:        | pAAV-AC-Myc-DDK (PS100089)                        |

**ORF Nucleotide Sequence:** >RC225734 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCTGAAGAAGCAGTCTGCAGGGCTTGCTGTGGGGCGCTATCCTCTTTGTGGCCTGGAATGCCCTGC  
TGCTCCTCTTCTTCTGGACGCGCCAGCACCTGGCAGGCCACCCTCAGTCAGCGCTCTCGATGGCGACCC  
CGCCAGCCTCACCCGGGAAGTGATTGCGCTGGCCCAAGACGCCGAGGTGGAGCTGGAGCGGCAGCGTGGG  
CTGCTGCAGCAGATCGGGGATGCCCTGTGAGCCAGCGGGGGAGGGTGCCACCGCGGCCCTCCCGCCC  
AGCCGCGTGTGCCTGTGACCCCGCGCCGGCGGTGATCCCATCCTGGTCATCGCCTGTGACCGCAGCAC  
TGTTCCGGCGCTGCCTGGACAAGCTGCTGCATTATCGGCCCTCGGCTGAGCTCTTCCCATCATCGTTAGC  
CAGGACTGCGGGCACGAGGAGACGGCCAGGCCATCGCCTCTACGGCAGCGCGGTACGCACATCCGGC  
AGCCCGACCTGAGCAGATTGCGGTGCCGCGGACCACCGCAAGTTCAGGGCTACTACAAGATCGCGCG  
CCACTACCGCTGGGCGCTGGGCCAGGTCTTCGGCAGTTTCGCTTCCCCGCGCCGTGGTGGTGGAGGAT  
GACCTGGAGGTGGCCCCGACTTCTTCGAGTACTTTCGGGCCACCTATCCGCTGCTGAAGGCCGACCCCT  
CCCTGTGGTGCGTCTCGGCCTGGAATGACAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCCTGAGCT  
GCTCTACCGCACCGACTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTGGGCTGAGCTGGAG  
CCCAAGTGGCCAAAGGCCTTCTGGGACGACTGGATGCGGGCGCCGAGCAGCGGCAGGGGCGGGCCTGCA  
TACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCGAAGGGTGTGAGCCACGGGCAGTTCTTTGACCA  
GCACCTCAAGTTTATCAAGCTGAACGACAGTTTGTGCACTTACCCAGCTGGACCTGTCTTACCTGCAG  
CGGGAGGCCTATGACCGAGATTTCTCGCCCGCGTCTACGGTGCTCCCCAGCTGCAGGTGGAGAAAGTGA  
GGACCAATGACCGGAAGGAGCTGGGGGAGGTGCGGGTGCAGTATACGGGCAGGACAGCTTCAAGGCTTT  
CGCCAAGGCTCTGGGTGTCATGGATGACCTTAAGTCGGGGGTCCGAGAGCTGGCTACCGGGGTATTGTC  
ACCTTCCAGTTCGGGGCGCCGTGTCCACCTGGCGCCCCACCGACGTGGGAGGGCTATGATCCTAGCT  
GGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Sequence:</b> | <p>&gt;RC225734 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MLKKQSAGLVWGAILFVAWNALLLLFFWTRPAPGRPPSVSALDGDPAASLTREVIRLAQDAEVELERQRG<br/> LLQQIGDALSSQGRVPTAAPPAPRVPVTPAPAVIPILVIACDRSTVRRCLDKLLHYRPSAELFPIIVS<br/> QDCGHEETAQAIASYGSVTHIRQPDLSIAVPPDHRKFQGYKIIARHYRWALGQVFRQFRFPAAVVVED<br/> DLEVAPDFFEYFRATYPLLKADPSLWCVSAWNGKEQMVDASRPPELLYRTDFFPGLGWLLLAELWAELE<br/> PKWPKAFWDDWMRRPEQRQGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVHFTQLDLSYLQ<br/> REAYDRDFLARVYGAPQLQVEKVRTNDRKELGEVRVQYTGGRDSFKAFKALGVMDLKGVPVPRAGYRGIV<br/> TFQFRGRRVHLAPPPTWEGYDPSWN</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p> |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Serotype:</b>         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ACCN:</b>             | NM_001114619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ORF Size:</b>         | 1335 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Buffer:</b>           | PBS with 0.001% Pluronic F68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Stability:</b>        | 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.                                                                                                                                            |
| <b>RefSeq:</b>           | <u>NM_001114619.1, NP_001108091.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>      | 2658 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq ORF:</b>       | 1338 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Locus ID:</b>         | 4245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>       | <u>P26572</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cytogenetics:</b>     | 5q35.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW:</b>               | 50.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |