

## Product datasheet for **MR210420A1V**

### Mouse Col8a1 (NM\_007739) AAV Particle

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | AAV Particles                         |
| Product Name:             | Mouse Col8a1 (NM_007739) AAV Particle |
| Tag:                      | Myc-DDK                               |
| Symbol:                   | Col8a1                                |
| Synonyms:                 | Col8a-1                               |
| Mammalian Cell Selection: | None                                  |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)            |



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ORF Nucleotide Sequence:

>MR210420 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**

ATGGCACTGCCACCCAGGCCTCTACAGCTGCTGGGAATACTGTTTCATATTTCCCTGAACCTCTGTCAGAC  
TCATTACAGGCCGGTGCCTACTATGGAATCAAGCCTCTGCCACCTCAAATCCCTCCTCAGATACCACCACA  
AATTCCACAGTACCAGCCTTTGGGCCAGCAAGTCCCTCACATGCCTTTGGGCAAAGATGGCCTTTCCATG  
GGCAAGGAGATGCCTCACATGCAGTATGGCAAAGAGTACCCACACCTACCCCAATATATGAAGGAAATCC  
CACCTGTGCCAAGAATGGGCAAGGAAAGTGGTGCCCAAAAAGGCAAAGGAGAAAGTACCGTTAGCCAGTTT  
GCGCGGAGAACAAGGTCCCCGTGGAGAACCTGGACCAAGAGGACCACCTGGGCCGCCAGGTTTACCAGG  
CATGGAATGCCTGGAATCAAAGGAAAAACCAGGGCCCCAGGGATATCCAGGAATTGGAAAGCCCCGATGC  
CTGGAATGCCTGGGAAGCCAGGAGCCATGGGAATGCCAGGGGCAAAAGGCGAAATTGGACCCAAAGGGGA  
AATCGGACCTATGGGAATCCCAGGGCCACAAGGGCCTCCAGGACCTCATGGACTTCTGGCATCGGGAAA  
CCGGGTGGGCCAGGTTTACCAGGGCAACCAGGAGCAAAAGGTGAGAGGGGGCCCAAAGGACCACAGGAC  
CTCCCGCCTTCAGGGTCCCAAAGGAGAGAAGGGCTTTGGATGCCTGGCTTCCAGGTTGAAGGTTCC  
TCCAGGTATGCATGGCCCTCTGGACAGTTGGACTACCGGAGTAGGAAAAACAGGAGTGACAGGTTCT  
CTGTGACCACAGGTCCTCCGGGAAGCCAGGGCTCCAGGGGAACCTGGACCAAGGCCTATTGGTG  
TGCCAGGAGTTCAAGGACCTCCTGGGATGCCTGGAGTTGAAAAGCCAGGTGAGGATGGGATCCCGGGCCA  
ACCAGGATTTCCGGGTGTTAAAGGGGAACAAGGATTGCCAGGGTTGCCTGGACCCCAAGGCCTCCAGG  
GTCGAAAGCCAGGTTTCCAGGACCCAAAGGGGACCGGGTATTGGGGGTGTTCTGGGGTTCTTGGGC  
CGAGAGGGGAAAAAGGACCCATTGGTGCTCCTGGAATGGGGGTCCACCTGGAGAGCCAGGCCTACCCGG  
TATCCCGGGTCCCATGGGCCCTCCAGGTGCTATTGGTTTCCCTGGACCCAAAGGAGAAGGTGGAGTTGTA  
GGACCACAGGGTCCACCAGGCCCAAGGGAGAGCCTGGCCTCCAAGGCTTCCCTGGGAAGCCAGGTTTTCT  
TTGGTGAAGTAGGTCCCCTGGCATGAGGGGTTTGCCTGGTCTATAGGACCCAAAGGAGAAGGTGGTCA  
CAAAGGGTTGCCAGGGCTTCCCGTGTTCCAGGGCTGCTTGGACCCAAAGGAGAACCTGGCATACCTGGG  
GATCAGGGTCTACAGGGTCCCCAGGGATTCCAGGGATCGTAGGACCTAGTGGCCCTATTGGACCCCTG  
GGATTCCGGGCCCAAGGAGAACCAAGGCCTCCAGGGCCCCCTGGGTTCCCTGGTGATAGGGAAGCCAGG  
AGTAGCAGGACTTCATGGGCCCCCGGGGAAACCTGGTGCCCTTGGGCCTCAAGGCCAGCCTGGCCTTCT  
GGACCCCAAGGTCTCCAGGACCCCAAGGCCCTCCAGCTGTGATGCCTACACCATCACCCCAAGGAGAGT  
ATCTGCCAGATATGGGACTAGGAATTGATGGGGTGAAACCTCCGCATGCCTATGCGGGCAAAAAGGGCAA  
ACACGGAGGGCCAGCCTATGAGATGCTTCGCTTTACTGCCGAGCTGACTGTACCTTTCCACCCGGTGGG  
GCCCCAGTGAAGTTTGACAAGCTGCTTACAACGGCAGACAGTACAATCCGACAGACGCATCTTCA  
CCTGTGAAGTCCCGGTGTCTACTACTTGTCTTATCATGTTCAAGTGAAGGAGCAAGTATGGTTGC  
TCTTCTCAAGAAACAACGAGCCCATGATGTACACATACGACGAGTACAAGAAGGGCTTTCTGGACCAAGCA  
TCTGGAAGCGCAGTACTGCTTCTCCGTCCCGGAGACCAGGTGTTTCTCCAATGCCTTCAGAACAGGCTG  
CTGGACTCTATGCCGGGCAATATGTCCACTCCTCCTTTTCCAGGATATTTATTGTATCCCATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Sequence:</b> | <p>&gt;MR210420 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MALPPRPLQLLGILFIISLNSVRLIQAGAYYGKPLPPQIPPQIPPQIPQYQPLGQQVPHMPLGKDGLSM<br/> GKEMPHMQYGYGKEYPHLPQYMKEIPPVPRMGKEVVPKKGKEVPLASLRGEQGPRGEPGPRGPPGPPGLPG<br/> HGMPGIKKGKPGQGYPGIGKPGMPGMPGKPGAMGMPGAKGEIGPKGEIGPMGIPGQPPGPHGLPGIGK<br/> PGGPGPLPGQPGAKGERGPKGPPGPPGLQGPKEKGFMPGLPGLKGPPGMHGPPGPVGLPGVGKPGVTGF<br/> PGPQGPLGKPGPPGEPGQGLIGVPGVQPPGMPGVGKPGQDGIPGQPGFPGGKGEQGLPGLPGPPGLPG<br/> VGKPGFPGPKGDRGIGGVPGVLGPRGEKGPIGAPGMGGPPGEPGLPGIPGPMGPPGAIGFPGPKGEGGVV<br/> GPQGGPPGPKGEPGLQGFPGKPGFLGEVPPGMRLPGPIGPKGEGGHKGLPGLPGVPGLLGPKEGPIPG<br/> DQGLQGPPGIPGIVGSPGIPGPPGIPGPKGEPGLPGPPGFGVGKPGVAGLHGPPGKPGALGPQQPGPLP<br/> GPPGPPGPPGPPAVMPTPSPQGEYLPDMGLGIDGVKPPHAYAGKKGKHGGPAYEMPAFTAELTVPFPPVG<br/> APVKFDKLLYNGRQYNPQTGIFTCEVPGVYFYFAYHVKCKGGNVVVALFKNNEPMMYTYDEYKKGFLDQA<br/> SGSAVLLLRPGDQVFLQMPSEQAAGLYAGQYVHSSFSGYLLYPM</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| <b>Species:</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Serotype:</b>         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ACCN:</b>             | NM_007739                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ORF Size:</b>         | 2233 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Buffer:</b>           | PBS with 0.001% Pluronic F1508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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_007739.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>      | 5110 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq ORF:</b>       | 2235 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>         | 12837                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>       | <u>Q00780</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cytogenetics:</b>     | 16 C1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MW:</b>               | 73.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |