

## Product datasheet for **RC204245A1V**

### Human MELK (NM\_014791) AAV Particle

#### Product data:

|                           |                                     |
|---------------------------|-------------------------------------|
| Product Type:             | AAV Particles                       |
| Product Name:             | Human MELK (NM_014791) AAV Particle |
| Tag:                      | Myc-DDK                             |
| Symbol:                   | MELK                                |
| Synonyms:                 | HPK38                               |
| Mammalian Cell Selection: | None                                |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)          |



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## ORF Nucleotide Sequence:

>RC204245 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGAAAGATTATGATGAACCTTCTCAAATATTATGAATTACATGAACTATTGGGACAGGTGGCTTTGCAA  
AGGTCAAACCTTGCTGCCATATCCTTACTGGAGAGATGGTAGCTATAAAATCATGGATAAAACACACT  
AGGGAGTGATTTGCCCGGATCAAAACGGAGATTGAGGCCTTGAAGAACCTGAGACATCAGCATATATGT  
CAACTCTACCATGTGCTAGAGACAGCCAACAAATATTCATGGTCTTGAGTACTGCCCTGGAGGAGAGC  
TGTTTGACTATATAATTTCCAGGATCGCCTGTCAGAAGAGGAGACCGGGTTGTCTCCGTGAGATAGT  
ATCTGCTGTTGCTTATGTGCACAGCCAGGGCTATGCTCACAGGGACCTCAAGCCAGAAAAATTTGCTGTTT  
GATGAATATCATAAATTAAGCTGATTGACTTTGGTCTCTGTGCAAAACCCAAGGTAACAAGGATTACC  
ATCTACAGACATGCTGTGGGAGTCTGGCTTATGCAGCACCTGAGTTAATAACAAGGCAATCATATCTTGG  
ATCAGAGGCAGATGTTTGGAGCATGGGCATACTGTTATATGTTCTTATGTGTGGATTTCTACCATTGAT  
GATGATAATGTAAATGGCTTTATACAAGAAGATTATGAGAGGAAAAATATGATGTTCCCAAGTGGCTCTCTC  
CCAGTAGCATTCTGCTTCTTCAACAAATGCTGCAGGTGGACCCAAAGAAACGGATTTCTATGAAAAATCT  
ATTGAACCATCCCTGGATCATGCAAGATTACAACATCCTGTTGAGTGGCAAAGCAAGAAATCCTTTTATT  
CACCTCGATGATGATTGCGTAACAGAATTTCTGTACATCACAGAAACACAGGCAACAAATGGAGGATT  
TAATTTCACTGTGGCAGTATGATCACCTCACGGCTACCTATCTTCTGCTTCTAGCCAAGAAGGCTCGGGG  
AAAACCAAGTTCGTTTAAGGCTTTCTTCTTCTCCTGTGGACAAGCCAGTGCTACCCCATTCACAGACATC  
AAGTCAAATAATTGGAGTCTGGAAGATGTGACCGCAAGTGATAAAATTTATGTGGCGGGATTAATAGACT  
ATGATTGGTGTGAAGATGATTTATCAACAGGTGCTGCTACTCCCGAACATCACAGTTTACCAAGTACTG  
GACAGAATCAAAATGGGGTGAATCTAAATCATTAACTCCAGCCTTATGCAGAACACCTGCAAAATAAATTA  
AAGAACAAGAAAAATGTATATACTCCTAAGTCTGCTGTAAGAATGAAGAGTACTTTATGTTTCTGAGC  
CAAAGACTCCAGTTAATAAGAACCAGCATAAGAGAGAAATACTCACTACGCCAAATCGTTACACTACACC  
CTCAAAAGCTAGAAACCAAGTGCCTGAAAGAACTCCAATTAATAACAGTAAATTCAACAGGAACAGAC  
AAGTTAATGACAGGTGTCATTAGCCCTGAGAGGCGGTGCCGCTCAGTGGAAATGGATCTCAACCAAGCAC  
ATATGGAGGAGACTCCAAAAAGAAAGGGAGCCAAAGTGTGGGAGCCTTGAAGGGGGTTGGATAAGGT  
TATCACTGTGCTCACCAGGAGCAAAAGGAAGGGTCTGCCAGAGACGGGCCAGAAAGACTAAAGCTTAC  
TATAATGTGACTACAACATAGATTAGTGAATCCAGATCAACTGTTGAATGAAATAATGTCTATTCTTCAA  
AGAAGCATGTTGACTTTGTACAAAAGGGTTATACACTGAAGTGTCAAACACAGTCAGATTTGGGAAAGT  
GACAATGCAATTTGAATTAGAAGTGTGCCAGCTTCAAAAACCCGATGTGGTGGGTATCAGGAGGCAGCGG  
CTTAAGGGCGATGCCTGGGTTTACAAAAGATTAGTGAAGACATCCTATCTAGCTGCAAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC204245 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MKDYDELLKYYELHETIGTGGFAVKVLACHILTGEMVAIKIMDKNTLGSDLPRIKTEIEALKNLRHQHIC<br/> QLYHVLETANKIFMVLEYCPGGELFDYIISQDRLSEEETRVVFRQIVSAVYVHSQGYAHRDLKPENLLF<br/> DEYHKLKLIIDFGLCAKPKGNKDYHLQTCCGSLAYAPELIQGKSYLGSEADVWSMGILLYVLMCGFLPFD<br/> DDNVMALYKKIMRGKYDVPKWLSPSSILLQLQMLQVDPKKRISMKNLLNHPWIMQDYNYPVEWQSKNPF I<br/> HLDDDCVTELSVHHRNNRQTMEDLISLWQYDHLTATYLLLLAKKARGKPVRLRLSSFSCGQASATPFTDI<br/> KSNNWSLEDVTASDKNYVAGLIDYDWCEDDLSTGAATPRTSQFTKYWTESNGVESKSLTPALCRTPANKL<br/> KNKENVYTPKSAVKNEEYFMFPEPKTPVNKNQHKREILTPNRYTTPSKARNQCLKETPIKIPVNSTGTD<br/> KLMTGVISPERRCRSVELDLNQAHEETPKRKGAKVFGSLERGLDKVITVLTRSKRKGSAARDGPRRLKLH<br/> YNVTTTRLVNPQQLLNEIMSILPKKHVDFVQGYTLKCQTQSDFGKVTMQFELEVQQLQKPDVVGIRRQR<br/> LKGDWVYKRLVEDILSSCKV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ACCN:             | NM_014791                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ORF Size:         | 1953 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Buffer:           | PBS with 0.001% Pluronic F5541                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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:           | <a href="#">NM_014791.2</a> , <a href="#">NP_055606.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RefSeq Size:      | 2486 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:       | 1956 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:         | 9833                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt ID:       | <a href="#">Q14680</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cytogenetics:     | 9p13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MW:               | 74.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |