

## Product datasheet for **RC222699A1V**

### Human FMRP (FMR1) (NM\_002024) AAV Particle

#### Product data:

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Type:             | AAV Particles                              |
| Product Name:             | Human FMRP (FMR1) (NM_002024) AAV Particle |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | FMR1                                       |
| Synonyms:                 | FMRP; FRAXA; POF; POF1; POFX               |
| Mammalian Cell Selection: | None                                       |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                 |



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## ORF Nucleotide Sequence:

>RC222699 representing NM\_002024  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGCTGGTGGTGAAGTGCGGGGCTCCAATGGCGCTTTCTACAAGGCATTTGTAAGGATGTTT  
 ATGAAGATTCAATAACAGTTGCATTTGAAAACAACCTGGCAGCCTGATAGGCAGATTCCATTTTCATGATGT  
 CAGATTTCCACCTCCTGTAGGTTATAATAAAGATATAAATGAAAGTGATGAAGTTGAGGTGATTCCAGA  
 GCAAAATGAAAAAGAGCCTTGCTGTTGGTGGTTAGCTAAAGTGAGGATGATAAAGGGTGAGTTTTATGTGA  
 TAGAATATGCAGCATGTGATGCAACTTACAATGAAATTGTACAAATTGAACGTCTAAGATCTGTTAATCC  
 CAACAAACCTGCCACAAAAGATACTTTCCATAAGATCAAGCTGGATGTGCCAGAAGACTACGGCAAATG  
 TGTGCCAAGAGGCGGCACATAAGGATTTTAAAAAGGCAGTTGGTGCCTTTTCTGTAACCTATGATCCAG  
 AAAATTATCAGCTTGTCATTTTGTCCATCAATGAAGTCACCTCAAAGCGAGCACATATGCTGATTGACAT  
 GCACTTTTCGGAGTCTGCGCACTAAGTTGTCTCTGATAATGAGAAATGAAGAAGCTAGTAAGCAGCTGGAG  
 AGTTCAAGGCAGCTTGCCTCGAGATTTTCATGAACAGTTTATCGTAAGAGAAGATCTGATGGGTCTAGCTA  
 TTGGTACTCATGGTGCTAATATTCAGCAAGCTAGAAAAAGTACCTGGGGTCACTGCTATTGATCTAGATGA  
 AGATACCTGCACATTTTCATATTTATGGAGAGGATCAGGATGCAGTGAAAAAGCTAGAAGCTTTCTCGAA  
 TTTGCTGAAGATGTAATACAAGTTCCAAGGAACCTAGTAGGCAAGTAATAGGAAAAATGGAAGCTGA  
 TTCAGGAGATTGTGGACAAGTCAGGAGTTGTGAGGGTGAGGATTGAGGCTGAAAAATGAGAAAAATGTTCC  
 ACAAGAAGAGGAAATTTAGATATAAAGGAAAAACAGCACCCATTTTCTCAACCTAACAGTACAAAAGTCC  
 GAAGAAAAAACATTTAGATATAAAGGAAAAACAGCACCCATTTTCTCAACCTAACAGTACAAAAGTCC  
 AGAGGGTGTAGTGGCTTCATCAGTTGTAGCAGGGGAATCCAGAAACCTGAACCTCAAGCTTGGCAGGG  
 TATGGTACCATTTGTTTTGTGGGAACAAAGGACAGCATCGCTAATGCCACTGTTCTTTTGGATTATCAC  
 CTGAACCTATTTAAAGGAAGTAGACCAGTTGCGTTTGGAGAGATTACAAATTGATGAGCAGTTGCGACAGA  
 TTGGAGCTAGTTCTAGACCACCACCAAATCGTACAGATAAGGAAAAAGCTATGTGACTGATGATGGTCA  
 AGGAATGGGTCGAGGTAGTAGACCTTACAGAAATAGGGGGCACGGCAGACGCGGTCTGGATATACTTCA  
 GGAACCTAATTCTGAAGCATCAAATGCTTCTGAAACAGAACTGACACAGAGACGAACTCAGTGATTGGT  
 CATTAGCTCCACAGAGGAAGAGAGGGAGAGCTTCTGCGCAGAGGAGACGGACGGCGGCGTGGAGGGGG  
 AGGAAGAGGACAAGGAGGAAGAGGACGTGGAGGAGGCTTCAAAGGAAACGACGATCACTCCCGAACAGAT  
 AATCGTCCACGTAATCCAAGAGAGGCTAAAGGAAGAACAACAGATGGATCCCTTCAGATCAGAGTTGACT  
 GCAATAATGAAAGGAGTGTCCACACTAAACATTACAGAATACCTCCAGTGAAGGTAGTCGGCTGCGCAC  
 GGGTAAAGATCGTAACCAGAAGAAAGAGAAGCCAGACAGCGTGGATGGTCAGCAACCACTCGTGAATGGA  
 GTACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC222699 representing NM_002024</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MEELVVEVRGSNGAFYKAFVKDVHEDSITVAFENNWQPDRQIPFHDVRFPPVGVNKGNDINESDEVEVYSR<br/>           ANEKEPCCWLLAKVRMIKGEFYVIEYAACDATYNEIVTIERLSVNPKNPATKDTFHKIKLDVPEDLRQM<br/>           CAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRKLKSLIMRNEEASKQLE<br/>           SSRQLASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAVKKARSFLE<br/>           FAEDVIQVPRNLVGKVIKNGKLIQEIVDKSGVVRVRIEAEENEKNVPQEEEIMPPNSLPNNNSRVGPNAP<br/>           EEKHLDDIKENSTHFSQPNSTKVQRVLVASSVAGESQKPELKAWQGMVPFVFVGTGDSIANATVLLDYH<br/>           LNYLKEVDQLRLRLQIDEQLRQIGASSRPPPNRTDKEKSYVTDDGQGMGRSRPYRNRGHRGPGYTS<br/>           GTNSEASNASETESDHRDELSDWSLAPTEEERESFLRRGDGRRRGGGGRGQGRGRGGGFKGNDHSDTD<br/>           NRPRNPREAKGRITDGSLLQIRVDCNNERSVHTKTLQNTSSEGSRLRTGKDRNQKKEKPDSDVGQQLVNG<br/>           VP</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ACCN:             | NM_002024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ORF Size:         | 1896 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Buffer:           | PBS with 0.001% Pluronic F8550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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_002024.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RefSeq Size:      | 4362 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq ORF:       | 1899 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Locus ID:         | 2332                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UniProt ID:       | <u>Q06787</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cytogenetics:     | Xq27.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MW:               | 71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |