

Product datasheet for **RC223519A1V**

Human Melanopsin (OPN4) (NM_033282) AAV Particle

Product data:

Product Type:	AAV Particles
Product Name:	Human Melanopsin (OPN4) (NM_033282) AAV Particle
Tag:	Myc-DDK
Symbol:	Melanopsin
Synonyms:	MOP
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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ORF Nucleotide Sequence:

>RC223519 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAACCTCCTTCGGGGCCAAGAGTCCTGCCAGCCCAACCAAGAGCCAGCTGCATGGCCACCCAG
 CACCACCAGCTGGTGGGACAGCTCCCAGAGCAGCATCTCCAGCCTGGGCCGGCTTCCATCCATCAGTCC
 CACAGCACCTGGGACTTGGGCTGCTGCCTGGGTCCCCCTCCCCACGGTTGATGTTCCAGACCATGCCAC
 TATACCTGGGCACAGTGATCTTGCTGGTGGGACTCACGGGGATGCTGGGCAACCTGACGGTCATCTATA
 CCTTCTGCAGGAGCAGAAGCCTCCGGACACCTGCCAACATGTTCAATTATCAACCTCGCGGTACGCGACTT
 CCTCATGTCCTTACCCAGGCCCTGTCTTCTTACCAGTAGCCTCTATAAGCAGTGGCTCTTTGGGGAG
 ACAGGTGCGAGTTCTATGCCTTCTGTGGAGCTCTTTGGCATTTCCTCATGATCACCTGACGGCCA
 TCGCCCTGGACCGCTACCTGGTAATCACACGCCCGCTGGCCACCTTTGGTGTGGCGTCCAAGAGGCGTGC
 GGCATTTGTCCTGCTGGGCGTTGGCTCTATGCCCTGGCCTGGAGTCTGCCACCTTCTTCGGCTGGAGC
 GGCTACGTGCCCAGGGGTTGCTGACATCCTGCTCCTGGGACTACATGAGCTTACGCGCGCCGTGCGTG
 CCTACACCATGCTTCTGCTGCTTCTGTTCTTCTCCTCTGCTTATCATCATCTACTGCTACATCTT
 CATCTTCAGGGCCATCCGGGAGACAGGACGGGCTCTCCAGACCTTCGGGGCTGCAAGGGCAATGGCGAG
 TCCCTGTGGCAGCGGCAGCGGCTGCAGAGCAGTGCAAGATGGCCAAGATCATGCTGCTGGTCATCTCC
 TCTTCGTGCTCTCCTGGGCTCCCTATTCGCTGTGGCCCTGGTGGCCTTTGCTGGGTACGCACACGTCCT
 GACACCCTACATGAGCTCGGTGCCAGCGTCATCGCCAAGGCCTCTGCAATCCACAACCCCATCATTTAC
 GCCATCACCCACCCCAAGTACAGGTGGCATTGCCAGCACCTGCCCTGCCTGGGGGTGCTGCTGGGTG
 TATCAGCCGGCACAGTCGCCCTACCCAGCTACCGCTCCACCACCGCTCCAGCTGACCAGCCACAC
 CTCCAACCTCAGCTGGATCTCCATACGGAGGCCGAGGAGTCCCTGGGCTCGGAGAGTGAGGTGGGCTGG
 ACACACATGGAGGCAGAGCTGTGTGGGAGCTGCCAGCAAGCAATGGGCGGTCCCTCTACGGTCAGG
 GTCTGGAGGACTTGAAGCCAAGGCACCCCCAGACCCAGGGACACGAAGCAGAGACTCCAGGGAAGAC
 CAAGGGGCTGATCCCCAGCCAGGACCCAGGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223519 protein sequence
 Red=Cloning site Green=Tags(s)

MNPPSGPRVLPSPTEPSCMATPAPPSWWDSSQSSISLGRLPISPTAPGTWAAAWVPLPTVDVPDHAH
 YTLGTVILLVGLTGMGLNLTVIYTFCSRSLRTPANMFIINLAVSDFLMSFTQAPVFTSSLYKQWLFGE
 TGCEFYAFCGALFGISSMITLTAIALDRYLIVITRPLATFGVASKRRAAFVLLGVWLYALAWSLPFFGWS
 AYPPEGLLTSCSWDYSFTPAVRAYTMLLCCFVFLPLIIICYIFIFRAIRETGRALQTFGACKNGE
 SLWQRQLQSECKMAIMLLVILLFVLSWAPYSAVALVAFAGYAHVLPYSSVPAVIAKASAIHNPIIY
 AITHPKYRVAIAQHLPLGLVLLGVSRHRSRPYPSYRSTHRSSTLSHTSNLSWISIRRRQESLGESEVGV
 THMEAAAVWGAAQQANGRSLYGQLEDLEAKAPPRPQGHEAETPGKTKGLIPSQDPRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Species:

Human

Serotype:

AAV-2

ACCN:

NM_033282

ORF Size:

1434 bp

Buffer:

PBS with 0.001% Pluronic F68

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_033282.2</u>
RefSeq Size:	2386 bp
RefSeq ORF:	1437 bp
Locus ID:	94233
UniProt ID:	<u>Q9UHM6</u>
Cytogenetics:	10q23.2
MW:	52.7 kDa