

## Product datasheet for **RC210385A1V**

### Human Melatonin Receptor 1A (MTNR1A) (NM\_005958) AAV Particle

#### Product data:

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | AAV Particles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Name:             | Human Melatonin Receptor 1A (MTNR1A) (NM_005958) AAV Particle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag:                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Symbol:                   | Melatonin Receptor 1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms:                 | MEL-1A-R; MT1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mammalian Cell Selection: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ORF Nucleotide Sequence:  | <p>&gt;RC210385 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGCAGGGCAACGGCAGCGCGCTGCCAACGCCTCCCAGCCCGTGCTCCGCGGGACGGCGCGCGGCCCTCGTGGCTGGCGTCCGCCCTGGCTGCGTCTCATCTTCACCATCGTGGTGGACATCCTGGGCAACCTCCTGGTCATCCTGTCGGTGTATCGGAACAAGAAGCTCAGGAACGCAGGAAACATCTTTGTGGTGAGCTTAGCGGTGGCAGACCTGGTGGTGGCCATTTATCCGTACCCGTTGGTGTGATGTCGATATTTAAACACGGGTGGAACCTGGGCTATCTGCACTGCCAAGTCAGTGGTTCCTGATGGGCTGAGCGTCATCGGCTCCATATTTCAACATCACCGGCATCGCCATCAACCGCTACTGCTACATCTGCCACAGTCTCAAGTACGACAACTGTACAGCAGCAAGAAGTCCCTCTGCTACGTGCTCCTCATATGGCTCCTGACGCTGGCGGCCGTCTGCCAACCTCCGTGCAGGGACTCTCCAGTACGACCCGAGGATCTACTCGTGCACCTTCGCCAGTCCGTCAGCTCCGCCTACACCATCGCCGTGGTGGTTTTCCACTTCCTCGTCCCCATGATCATAGTCATCTTCTGTTACCTGAGAATATGGATCCTGGTCTCCAGGTGAGACAGAGGGTGAAACCTGACCGCAAACCCAACTGAAACACAGGACTTCAGGAATTTTGTACCATGTTTGTGGTTTTGTCTTTTGGCATTGCTGGGCTCCTCTGAATTCATTTGGCCTGGCCGTGGCCTCTGACCCGCCAGCATGGTGCCTAGGATCCAGAGTGGCTGTTGTGGCCAGTTACTACATGGCGTATTTCAACAGCTGCCTCAATGCCATTATACGGGCTACTGAACCAAAATTTAGGAAGGAATACAGGAGAAATTAGTCTCGCTCTGTACAGCCAGGGTGTCTTTGTGGACAGCTCTAACGACGTGGCCGATAGGGTTAAATGGAACCGTCTCCACTGATGACCAACAATAATGTAGTAAAGGTGGACTCCGTTACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p> |



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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC210385 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MQGNGSALPNASQPVLRGDGARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKLRNAGNIFVVSLA<br/> VADLVVAIYPYPLVLM SIFNNGWNLGYLHCQVSGFLMGLSVIGSIFNITGIAINRYCYICHSLKYDKLYS<br/> SKNSLCYVLLIWLLTAAVLPNLRAGTLQYDPRIYSCTFAQSVSSAYTIAVVVFHFLVPMIIVIFCYLRI<br/> WILVLQVRQVRVKPDRPKLPQDFRNFVTMFVVFVLF AICWAPLNFIFGLAVASDPASMVPRIPEWLFVAS<br/> YYMAYFNSCLNAIIYGLLNQNRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ACCN:             | NM_005958                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ORF Size:         | 1050 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:           | <a href="#">NM_005958.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq Size:      | 1105 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RefSeq ORF:       | 1053 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Locus ID:         | 4543                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt ID:       | <a href="#">P48039</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cytogenetics:     | 4q35.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW:               | 39.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |