

## Product datasheet for **RC202245A1V**

### Human COX2 (PTGS2) (NM\_000963) AAV Particle

#### Product data:

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Product Type:             | AAV Particles                                       |
| Product Name:             | Human COX2 (PTGS2) (NM_000963) AAV Particle         |
| Tag:                      | Myc-DDK                                             |
| Symbol:                   | PTGS2                                               |
| Synonyms:                 | COX-2; COX2; GRIPGHS; hCox-2; PGG/HS; PGHS-2; PHS-2 |
| Mammalian Cell Selection: | None                                                |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                          |



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**ORF Nucleotide Sequence:**

>RC202245 representing NM\_000963  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGCTCGCCCGGCCCTGCTGCTGTGCGCGTCTGGCGCTCAGCCATACAGCAAATCCTTGCTGTTCCC  
 ACCCATGTCAAAACCGAGGTGTATGTATGAGTGTGGGATTTGACCAAGTATAAGTGCGATTGTACCCGGAC  
 AGGATTCTATGGAGAAAAGTCTCAACACCGGAATTTTGGACAAGAATAAAATTTCTGAAACCCACT  
 CCAAACACAGTGCCTACATACTTACCCACTTCAAGGATTTTGGAAAGTGTGAATAACATTCCCTTCC  
 TTCGAAATGCAATTATGAGTTATGTGTTGACATCCAGATCACATTTGATTGACAGTCCACCAACTTACAA  
 TGCTGACTATGGCTACAAAAGCTGGGAAGCCTTCTAACCTCTCTATTATACTAGAGCCCTTCTCTCT  
 GTGCTGATGATTGCCGACTCCCTTGGGTGTCAAAGGTAAAAAGCAGCTTCTGATTCAAATGAGATTG  
 TGGAAAAATTGCTTCTAAGAAGAAAGTTCATCCCTGATCCCCAGGGCTCAAACATGATGTTTGCATTCTT  
 TGCCGAGCACTTACGCATCAGTTTTTCAAGACAGATCATAAGCGAGGGCCAGCTTTCACCAACGGGCTG  
 GGCCATGGGGTGGACTTAAATCATATTTACGGTGAAACTCTGGCTAGACAGCGTAAACTGCGCCTTTTCA  
 AGGATGGAATAATGAAATATCAGATAATTGATGGAGAGATGTATCCTCCACAGTCAAAGATACTCAGGC  
 AGAGATGATCTACCTCTCAAGTCCCTGAGCATCTACGGTTTGTGTGGGGCAGGAGGTCTTTGGTCTG  
 GTGCTGGTCTGATGTATGCCACAATCTGGCTGCGGGAACACAACAGAGTATGCGATGTGCTTAAAC  
 AGGAGCATCCTGAATGGGGTGTGAGCAGTTGTTCCAGACAAGCAGGCTAATACTGATAGGAGAGACTAT  
 TAAGATTGTGATTGAAGATTATGTGCAACACTTGAGTGGCTATCACTTCAAATGAAATTTGACCCAGAA  
 CTACTTTTCAACAAACAATTCCAGTACCAAAATCGATTGTGCTGCTGAATTTAACCCCTCTATCACTGGC  
 ATCCCCCTTCTGCTGACACCTTTCAAATTCATGACCAGAAATACAACATCAACAGTTTATCTACAACAA  
 CTCTATATTGCTGGAACATGGAATTACCCAGTTTGTGTAATCATTCACCAGGCAAAATGCTGGCAGGGTT  
 GCTGGTGTAGGAATGTTCCACCCGAGTACAGAAAGTATCACAGGCTTCCATTGACCAGAGCAGGCAGA  
 TGAAATACCAGTCTTTTAAATGAGTACCGCAAACGCTTTATGCTGAAGCCCTATGAATCATTTGAAGAACT  
 TACAGGAGAAAAGGAAATGTCTGCAGAGTTGGAAGCACTCTATGGTGACATCGATGCTGTGGAGCTGTAT  
 CCTGCCCTTCTGGTAGAAAAGCCTCGGCCAGATGCCATCTTGGTGAAACCATGGTAGAAGTTGGAGCAC  
 CATTCTCCTTGAAGGACTTATGGGTAATGTTATATGTTCTCCTGCTACTGGAAGCCAAGCACTTTTGG  
 TGGAGAAGTGGGTTTTCAAATCATCAACACTGCCTCAATTCAGTCTCTCATCTGCAATAACGTGAAGGGC  
 TGTCCCTTACTTCATTCACTGTTCCAGATCCAGAGCTCATAAAACAGTCACCATCAATGCAAGTTCTT  
 CCCGCTCCGACTAGATGATATCAATCCACAGTACTACTAAAAGAAGCTTCGACTGAAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202245 representing NM\_000963  
 Red=Cloning site Green=Tags(s)

MLARALLCAVLALSHTANPCCSHPCQNRGVCMSSVGFQYKCDTRTGFYGENCSTPEFLTRIKLFLKPT  
 PNTVHYILTHFKGFWNVNNIPFLRNAIMSYVLTSSRLIDSPPTYNADYGYKSWEAFSNLSYYTRALPP  
 VPDDCPTPLGVKGGKQLPDSNEIVEKLLLRKFIPDPQGSNMMFAFFAQHFTHQFFKTDHKGPAFTNGL  
 GHGVDLNHIYGETLARQRKLRLFKDGKMKYQIIDGEMYPPTVKDTQAEMIYPPQVPEHLRFVAGQEVFGL  
 VPGLMMYATIWLREHNRVCDVLKQEHPEWGEQLFQTSRLILIGETIKIVIEDYVQHLSGYHFKLFDPE  
 LLFNKQFQYQNRIAAEFNTLYHWHPLLPDTFQIHDQKYNQYQFIYNNISILLEHGITQFVESFTRQIAGRV  
 AGGRNVPPAVQKVSQASIDQSRQMKYQSFNEYRKRFLKPYESFEELTGEKEMSAELEALYGDIDAVELY  
 PALLVEKPRDAIFGETMVEVGAPFSLKGLMGNVICSPAYWKPSTFGGEVGFQIINTASIQSLICNNVKG  
 CPFTSFSVPDELIKTVTINASSRSGLDDINPTVLLKERSTEL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Species:**

Human

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serotype:     | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ACCN:         | NM_000963                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ORF Size:     | 1812 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Buffer:       | PBS with 0.001% Pluronic F5309                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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><a href="#">NM_000963.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq Size:  | 4465 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq ORF:   | 1815 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Locus ID:     | 5743                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt ID:   | <u><a href="#">P35354</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cytogenetics: | 1q31.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MW:           | 69 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |