

## Product datasheet for **RC233127A1V**

### Human Hydroxysteroid (17 beta) Dehydrogenase 4 (HSD17B4) (NM\_001199291) AAV Particle

#### Product data:

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Product Type:             | AAV Particles                                                                        |
| Product Name:             | Human Hydroxysteroid (17 beta) Dehydrogenase 4 (HSD17B4) (NM_001199291) AAV Particle |
| Tag:                      | Myc-DDK                                                                              |
| Symbol:                   | HSD17B4                                                                              |
| Synonyms:                 | DBP; MFE-2; MFP-2; MPF-2; PRLTS1; SDR8C1                                             |
| Mammalian Cell Selection: | None                                                                                 |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                                           |



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## ORF Nucleotide Sequence:

>RC233127 representing NM\_001199291  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTATTCTTGAGGCACCGCATCTCTTGAGGAGGAAAGAGCCGGAACACCTGGTCTCTCAAGCAGGA  
 TTGGGCCGAGCCTATGCCCTGGCTTTTGCAGAAAGAGGAGCGTTAGTTGTTGCTTTCAAAATCTATGCAA  
 TAACCCTATGGAGAAGATCATTTCACAATGCAGATTCTTTGTTCAATGAATGATTTGGGAGGGGACTTC  
 AAAGGAGTTGGTAAAGGCTCCTTAGCTGCTGATAAGGTTGTTGAAGAAATAAGAAGGAGAGGTGGAAGAG  
 CAGTGGCCAACTATGATTCAGTGAAGAAGGAGAGAAGGTTGTGAAGACAGCCCTGGATGCTTTTGAAG  
 AATAGATGTTGTGGTCAACAATGCTGGAATTCTGAGGGATCGTTCCTTTGCTAGGATAAGTGATGAAGAC  
 TGGGATATAATCCACAGAGTTTATTTGCGGGGTTCAATCCAAGTGACACGGGCAGCATGGAACACATGA  
 AGAAACAGAAGTATGGAAGGATTATTATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAGGC  
 CAATTATAGTGCTGCAAAAGTTGGGTCTTCTGGGCTTGCAAAATCTCTTGCAATTGAAGGCAGGAAAAGC  
 AACATTATTGTAACACCATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATC  
 TTGTGGAAGCCCTGAAGCCAGAGTATGTGGCACCTCTTGCTCTTTGGCTTTGTCACGAGAGTTGTGAGGA  
 GAATGGTGGCTTGTGAGGTTGGAGCAGGATGGATTGGAAAATTACGCTGGGAGCGGACTCTTGAGGCT  
 ATTGTAAGACAAAAGAATCACCAATGACTCCTGAGGCAGTCAAGGCTAACTGGAAGAAGATCTGTGACT  
 TTGAGAATGCCAGCAAGCCTCAGAGTATCCAAGAATCACTGGCAGTATAATTGAAGTTCTGAGTAAAT  
 AGATTGAGAAGGAGGAGTTTCAAGCAATCATACTAGTCGTGCAACGCTTACAGCAACATCAGGATTTGCT  
 GGAGCTATTGGCCAGAACTCCCTCCATTTTCTTATGCTTATACGGAAGTGAAGCTATTATGTATGCC  
 TTGGAGTGGGAGCGTCAATCAAGGATCCAAAGATTTGAAATTTATTTATGAAGGAAGTTCTGATTTCTC  
 CTGTTTGGCCACCTTCGGAGTTATCATAGGTCAGAAATCTATGATGGGTGGAGGATTAGCAGAAATTCCT  
 GGACTTTCAATCAACTTTGCAAGGTTCTTATGGAGAGCAGTACTTAGAGTTATATAAACCACTTCCCA  
 GAGCAGGAAAATTAAGTGAAGCAGTTGTTGCTGATGTCTAGATAAAGATCCGGTGTAGTGATTAT  
 TATGGATGTCTATTCTTATTCTGAGAAGGAAGTATATGCCACAATCAGTTCTCTCTCTTTCTTGTGGC  
 TCTGGAGGCTTTGGTGGAAAACGGACATCAGACAAAGTCAAGGTAGCTGTAGCCATACCTAATAGACCTC  
 CTGATGCTGTACTTACAGATACCACCTCTTAAATCAGGCTGCTTTGTACCGCTCAGTGGAGACTGGAA  
 TCCCTTACACATTGATCCTAAGTTTGTAGTCTAGCAGGTTTTGACAAGCCCATATTACATGGATTATGT  
 ACATTTGGATTTTCTGCCAGGCGTGTGTACAGCAGTTTGCAGATAATGATGTGTCAAGATTCAAGGCAA  
 TTAAGGCTCGTTTGCAGAAACAGTATATCCAGGACAACTCTACAACTGAGATGTGGAAGGAAGGAAA  
 CAGAATTCATTTTCAACCAAGGTCCAAGAACTGGAGACATTGTCAATTCAAATGCATATGTGGATCTT  
 GCACCAACATCTGGTACTTCAGCTAAGACACCCTCTGAGGGCGGGAAGCTTCAGAGTACCTTTGTATTTG  
 AGGAAATAGGACGCCGCTAAAGGATATTGGGCTGAGGTGGTGAAGAAAGTAAATGCTGTATTTGAGTG  
 GCATATAACCAAGGCGGAAATATTGGGCTAAGTGGACTATTGACCTGAAAAGTGGTTCTGGAAAAGTG  
 TACCAAGGCCCTGCAAAAGGTGCTGCTGATACAACAATCATACTTTCAGATGAAGATTTTCATGGAGGTGG  
 TCCTGGCAAGCTTGACCCTCAGAAGGCATTCTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATGCT  
 GAGCCAGAACTTCAGATGATTCTTAAGACTACGCCAAGCTC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC233127 representing NM_001199291</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MVILEAPHLLRRKEPETPGLSSRIGPSLCPGFCRKRVSQCFQNLNNPMEKIIISQCRFFVSMNDLGGDF<br/>           KGVGKGSAAADKVVEEIRRRGGKAVANYDSVEEGEKVVKTALDAFGRIDVVNNAGILRDRSFARISDED<br/>           WDIHRVHLRGSFQVTRAAWEHMKQKYGRIIMTSSASGIYGNFGQANYSAAKLGLLGLANSLAIEGRKS<br/>           NIHCNTIAPNAGSRMTQTVMPEDLVEALKPEYVAPLVWLCHESCEENGGLFEVGAGWIGKLRWERTLGA<br/>           IVRQKNHPMTPEAVKANWKKICDFENASKPQSIQESTGSIIEVLKIDSEGGVSNHTSRATSTATSGFA<br/>           GAIGQKLPPFSYAYTELEAIMYALGVGASIKDPKDLKFIYEGSSDFSLPTFGVIIGQKSMMGGGLAEIP<br/>           GLSINFAKVLHGEQYLELYKPLPRAGKLKCEAVVADVLDKSGSVIIMDVYSYSEKELICHNQFSLFLVG<br/>           SGGFGGKRTSDKYKVAVAIIPNRPPDAVLDTTSLNQAALYRLSGDWNPLHIDPNFASLAGFDKPIHLGLC<br/>           TFGFSARRVLQQFADNDVSRFKAIAKARFAKPVYPGQTLQTEMWKEGNRIHFQTKVQETGDIVISNAYVDL<br/>           APTSGTSAKTPSEGGKLQSTFVFEEIGRRLKDIGPEVVKVNAVFEWHITKGGNIGAKWTIDLKSGSGKV<br/>           YQGPAKGAADTTIILSDEDFMEVVLGKLDLPQKAFFSGRLKARGNIMLSQKLQMLKDYAKL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ACCN:             | NM_001199291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ORF Size:         | 2283 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Buffer:           | PBS with 0.001% Pluronic F10165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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_001199291.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RefSeq Size:      | 2899 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq ORF:       | 2286 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:         | 3295                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt ID:       | <u>P51659</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Cytogenetics:     | 5q23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MW:               | 83.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |