

Product datasheet for RC201307

DHRS11 (NM_024308) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS11 (NM_024308) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHRS11
Synonyms:	ARPG836; SDR24C1; spDHRS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201307 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGCCCGGCATGGAGCGGTGGCGCACCAGGCTGGCGCTGGTGACGGGGGCTCGGGGGGCATCG
GCGCGCCGTGGCCCGGCCCTGGTCCAGCAGGGACTGAAGTGGTGGGCTGCGCCCGACTGTGGGCAA
CATCGAGGAGCTGGCTGCTGAATGTAAGAGTGCAGGCTACCCCGGACTTTGATCCCTACAGATGTGAC
CTATCAAATGAAGAGGACATCCTCTCCATGTTCTCAGCTATCCGTTCTCAGCACAGCGGTGTAGACATCT
GCATCAACAATGTGGCTTGGCCCGCCCTGACACCCTGCTCTCAGGCAGCACCAGTGGTTGAAGGACAT
GTTCAATGTGAACGTGCTGGCCCTCAGCATCTGCACACGGGAAGCCTACCAGTCCATGAAGGAGCGGAAT
GTGGACGATGGGCACATCATTAAACATCAATAGCATGTCTGGCCACCGAGTGTACCCCTGTCTGTGACCC
ACTTCTATAGTGCCACCAAGTATGCCGCTACTGCGCTGACAGAGGGACTGAGGCAAGAGCTTCGGGAGGC
CCAGACCCACATCCGAGCCACGTGCATCTCTCCAGGTGTGGTGGAGACACAATTCGCCTTCAAATCCAC
GACAAGGACCCTGAGAAGGCAGCTGCCACCTATGAGCAAATGAAGTGTCTCAAACCCGAGGATGTGGCCG
AGGCTGTTATCTACGTCTCAGCACCCCGCACACATCCAGATTGGAGACATCCAGATGAGGCCACGGA
GCAGGTGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201307 protein sequence
 Red=Cloning site Green=Tags(s)

MARPGMERWRDLALVTGASGGIGAAVARALVQQLKVVGCARTVGNIEELAAECKSAGYPGTLIPYRCD
 LSNEEDILSMFSAIRSQHSQVDICINNAGLARPDLLSGSTSGWKDMFNVNLALSICTREAYQSMKERN
 VDDGHIININSMSGHRVLP LSVTHFY SATKYAVTALTEGLRQELREAQTHIRATCISPGVVETQFAFKLH
 DKDPEKAAATYEQMKCLKPEDVAEAVIYVLSTPAHIQIGDIQMRPTEQVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6213_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024308

ORF Size: 780 bp

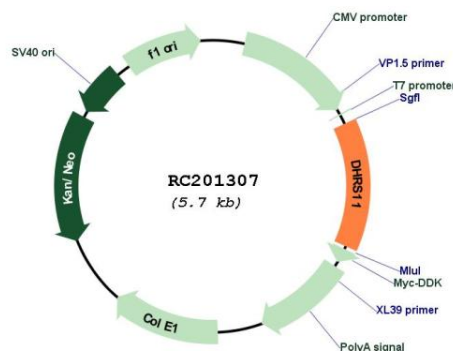
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

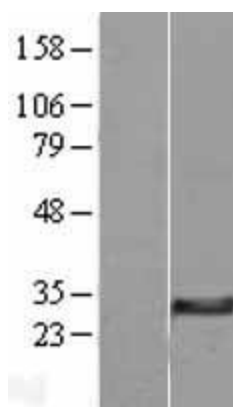
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_024308.4
RefSeq Size:	1608 bp
RefSeq ORF:	783 bp
Locus ID:	79154
UniProt ID:	Q6UWP2
Cytogenetics:	17q12
Domains:	adh_short
Protein Families:	Druggable Genome, Transmembrane
MW:	28.3 kDa
Gene Summary:	Catalyzes the conversion of the 17-keto group of estrone, 4- and 5-androstenes and 5-alpha-androstanes into their 17-beta-hydroxyl metabolites and the conversion of the 3-keto group of 3-, 3,17- and 3,20- diketosteroids into their 3-hydroxyl metabolites. Exhibits reductive 3-beta-hydroxysteroid dehydrogenase activity toward 5-beta-androstanes, 5-beta-pregnanes, 4-pregnanes and bile acids. May also reduce endogenous and exogenous alpha-dicarbonyl compounds and xenobiotic alicyclic ketones.[UniProtKB/Swiss-Prot Function]

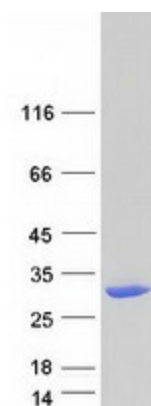
Product images:



Circular map for RC201307



Western blot validation of overexpression lysate (Cat# [LY411327]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHRS11 protein (Cat# [TP301307]). The protein was produced from HEK293T cells transfected with DHRS11 cDNA clone (Cat# RC201307) using MegaTran 2.0 (Cat# [TT210002]).