

Product datasheet for **RN206628**

Srd5a3 (NM_001013990) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srd5a3 (NM_001013990) Rat Untagged Clone
Tag: Tag Free
Symbol: Srd5a3
Synonyms: RGD1308828; S5AR 3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206628 representing NM_001013990
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGGTTGGGCGGGGCGGAGCTCTCGGTCTGAACCCGCTGCGTGCGCTGTGGCTGTTGCTGGCCG
CCGCTTCTGCTCGACTGCTGCTGCAGCTGGCGCCCGCAGGCTGCTACCGAGCTGCGCGCTCTTCCA
GGACCTCATCCGCTACGGAAGACCAAGCAGTCCGGCTCGCGGCCCGCCCGTCTGCAGGGCCTTCGAC
GTCCCAAGAGGTAATTTCTCACTTCTACGTCGTCTCAGTGTTATGGAATGGCTCCCTGCTCTGGTTCC
TGTCTCAGTCTCTGTTCCCTGGGAGCGCCGTTTCCAAGCTGGCTTTGGGCTTTGCTCAGAACTCTGGGGT
CACGCAGTTCCAAGCCCTGGGGATGGAGTCCAAGGCTTCTCGGATACAAGCAGGCGAGCTGGCTCTGTCT
ACCTTCTTAGTGTGGTGTCTCTGGTCCATAGTCTTCGGAGACTCTTCGAGTGCTTCTACGTCAGCG
TCTTCTAACACGGCCATTACGTCGTGCAGTACTGTTTCGGGCTGGTCTACTATGTCCTTGTGGCCT
GACCGTACTGAGCCAAGTGGCCATGAATGACAAGAAGTGTACGCTCTGGGAAGAATCTACTGTACAA
GCTCGGTGGTCCACATCTGGGAATGATGATGTTCTTCTGGTCTCTGCCATCAGTATAAGTGCCACG
TCATTCTCAGCAATCTCAGGAGAAATAAGAAAGGTGTGGTCATCCACTGCCAGCACAGAATCCCCTTTGG
AGACTGGTTCGAGCTTTATGGTGAAGAGCGCAGCCAGGTGACAGGTTCCCTTCTCGAGACGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013990
Insert Size: 837 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001013990.1</u> , <u>NP_001014012.1</u>
RefSeq Size:	1370 bp
RefSeq ORF:	837 bp
Locus ID:	305291
UniProt ID:	<u>Q5RJM1</u>
Cytogenetics:	14p11
Gene Summary:	Plays a key role in early steps of protein N-linked glycosylation by being required for the conversion of polyprenol into dolichol. Dolichols are required for the synthesis of dolichol-linked monosaccharides and the oligosaccharide precursor used for N-glycosylation. Acts as a polyprenol reductase that promotes the reduction of the alpha-isoprene unit of polyprenols into dolichols in a NADP-dependent mechanism. Also able to convert testosterone (T) into 5-alpha-dihydrotestosterone (DHT).[UniProtKB/Swiss-Prot Function]