

## Product datasheet for **RR206628**

### Srd5a3 (NM\_001013990) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srd5a3 (NM\_001013990) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Srd5a3  
**Synonyms:** RGD1308828; S5AR 3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206628 representing NM\_001013990  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGGTTGGGCGGGGCGGAGCTCTCGGTCCTGAACCCGCTGCGTGCGCTGTGGCTGTTGCTGGCCG  
CCGCCTTCCTGCTCGCACTGCTGCTGCAGCTGGCGCCCGCCAGGCTGCTACCGAGCTGCGCGCTCTTCCA  
GGACCTCATCCGCTACGGAAGACCAAGCAGTCCGGCTCGCGGCCCGCCCGTCTGCAGGGCCTTCGAC  
GTCCCAAGAGGTAATTTCTCACTTCTACGTCGTCTCAGTGTTATGGAATGGCTCCCTGCTCTGGTTCC  
TGTCTCAGTCTCTGTTCCCTGGGAGCGCCGTTTCCAAGCTGGCTTTGGGCTTTGCTCAGAACTCTGGGGT  
CACGCAGTTCCAAGCCCTGGGGATGGAGTCCAAGGCTTCTCGGATACAAGCAGGCGAGCTGGCTCTGTCT  
ACCTTCTTAGTGTGGTGTCTCTGGGTCCATAGTCTTCGGAGACTCTTCGAGTGCTTCTACGTCAGCG  
TCTTCTAACACGGCCATTACGTCGTGCAGTACTGTTTCGGGCTGGTCTACTATGTCCTTGTGGCCT  
GACCGTACTGAGCCAAGTGCCATGAATGACAAGAAGTGTACGCTCTGGGAAGAATCTACTGTACAA  
GCTCGGTGGTCCACATCTGGGAATGATGATGTTCTTCTGGTCTCTGCCATCAGTATAAGTGCCACG  
TCATTCTCAGCAATCTCAGGAGAAATAAGAAAGGTGTGGTCATCCACTGCCAGCACAGAATCCCTTTGG  
AGACTGGTTCGAGCTTTATGGTGAAGAGCGCAGCCAGGTGACAGGTTCCCTTCTCGAGACGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR206628 representing NM\_001013990  
Red=Cloning site Green=Tags(s)

MAGWAGAELSVLNPLRALWLLAAAFLLALLQLAPARLLPSCALFQDLIRYGTKQSGSRRPVCRAFD  
 VPKRYFSHFYVSVLWNGSLLWFLSQLFLGAPFPSWLWALLRTLGVTFQALGMESKASRIQAGELALS  
 TFLVLFVWVHSLRRLFECFYVSVFNTAIHVYQYCFGLVYVYLVGLTVLSQVPMNDKNVYALGKNLLQ  
 ARWFHILGMMFFWSSAHQYKCHVILSNLRRNKKGVVHCQHRIPFGDFELYEERSPGDRFPSSRR

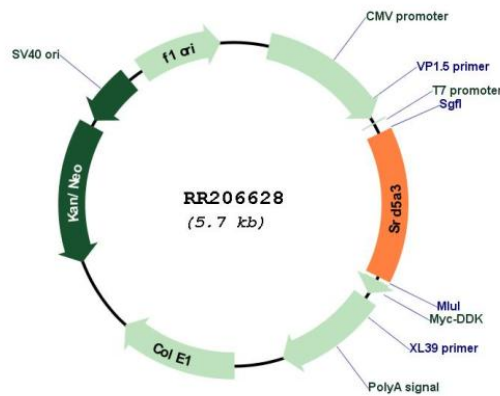
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001013990  
**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001013990.1</a> , <a href="#">NP_001014012.1</a>
<b>RefSeq Size:</b>	1370 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	305291
<b>UniProt ID:</b>	<a href="#">Q5RJM1</a>
<b>Cytogenetics:</b>	14p11
<b>MW:</b>	31.8 kDa
<b>Gene Summary:</b>	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]