

Product datasheet for **MG226010**

Srd5a3 (NM_020611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srd5a3 (NM_020611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Srd5a3
Synonyms:	1110025P14Rik; A430076C09; AV364670; AW987574; D730040M03Rik; H5ar; S5AR 3; Srd5a2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226010 representing NM_020611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGTGGGCCGGTTTGAGCTCTCGGCCCTGAACCCCTGCGGACGCTGTGGCTGGCGCTGGCCG
CCGCCTTCTGTTCGCGCTGCTGCTGCAGCTGGCGCCCGCAGGCTGCTGCCGAGCTGCGCGCTTCCA
GGACCTGCTCCGCTACGGGAAGACCAAGCAGTCCGGCTCGCGGCCCGCCCGTCTGCAGGGCTTCGAT
GTCCCAAGAGGTACTTTTCTCACTTCTACGTCATCTCAGTTGTGTGGAATGGCTCCCTGCTCTGGCTAC
TTTCTCAGTCGTTGTTCTGGGAGCACCTTTTCCAACTGGCTTAGTGCTCTGCTCAGAACTCTTGGGGC
CACACAGTTCCAAGCCCTGGAGATGGAGTCCAAGGCTTCTCGGATGCCAGCGGCTGAGCTGGCTCTGTCT
GCCTTCTTGGTCTTGGTGTCTCTGGTCCACAGCCTTCGGAGACTCTTTGAGTGCTTCTACGTACGTG
TCTTCTCTAATGCAGCCATTACAGTTGTGCAGTACTGTTTCGGGCTTGTCTACTATGTGCTTGTGGCCT
GACTGTAAGCAAGTGGCCATGGATGATAAGAATGTGTATGTTCTGGGGAAGAATCTACTGATACAA
GCCCGTGGTTCACATCCTGGGCATGGTATGTTCTTGGTATCCGCCATCAGTATAAATGCCACG
TCATCCTCAGCAACCTCAGGAGAAACAAAAAGGTGTGGTATCCACTGCCAGCACCGGATCCCTTTGG
AGACTGGTTCGAGTACGTGCTTTCAGCTAACTACCTAGCAGAGCTGATGATCTACATCCATGGCTGTC
ACCTTTGGGCTCCACAACCTAACCTGGTGGCTGGTGGTACGATGCTCTTCCAGCCAAGCCTTGTCCG
CATTCTTCAACCACAAGTCTACAGAAGCACATTTGTCTCTACCCAAAGCATAGGAAAGGTTCTCTCC
ATTTTTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226010 representing NM_020611
 Red=Cloning site Green=Tags(s)

MAGWAGFELSALNPLRTLWLALAAAFLLFALLLQLAPARLLPSCALFQDLLRYGKTKQSGSRRPAVCRAFT
 VPKRYFSHFYVISVVWNGSLLWLLSQLFLGAPFPNWLSALLRTLATQFQALEMESKASRMPAAELALS
 AFLVLFVFLVWVHSLRRLFECEFYVSVFNAAIHVVQYCFGLVYYYLVGLTVLSQVPMDDKNVYVVGKNNLIQ
 ARWFHILGMVMFFWSSAHQYKCHVILSNLRRNKKGVVHCQHRIPFGDWFYVSSANYLAELMIYISMAV
 TFGLHNLTWLWLVVTVYVFSQALSFAFFNHKFYRSTFVSYPKHKRAFLPFLF

TRTRPLE - GFP Tag - V

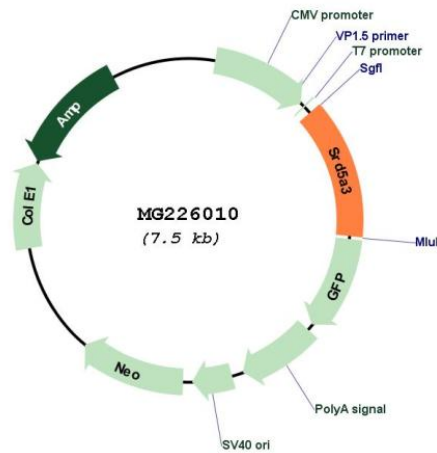
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_020611

ORF Size: 990 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_020611.4 , NP_065636.2
RefSeq Size:	1733 bp
RefSeq ORF:	993 bp
Locus ID:	57357
UniProt ID:	Q9WUP4
Cytogenetics:	5 C3.3
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]