

## Product datasheet for **MG202220**

### Srd5a2l (BC014771) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srd5a2l (BC014771) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Srd5a2l  
**Synonyms:** H5ar, A430076C09  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202220 representing BC014771  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGTCCAAGGCTTCTCTCGGATGCCAGCGGCTGAGCTGGCTCTGTCTGCCTTCTTGGTCTTGGTGT  
 CCTCTGGGTCCACAGCCTTCGGAGACTCTTTGAGTGCTTCTACGTCAGCGTCTTCTCTAATGCAGCCATT  
 TTCGTCGTGCAGTACTGTTTCGGGCTCTGTCTACTATGTGCTTGTGGCCTGACTGTACTGAGCCAAAT  
 GCGCCCATGGATGACAAGAAATGTGTATGTTCTGGGAAGAATCTACTGATAACAAGCCGGTGGTCCACA  
 TCCTGGGCATGGTGATGTTCTTCTGGTCATCCGCCATCAGTATAAATGCCACGTCATCCTCAGCAACCT  
 CAGGAGAAACAAAAAGGTGTGGTCATCCACTGCCAGCACCGGATCCCCTTTGGAGACTGGTTCGAGTAC  
 GTGCTTTCAGCTAACTACCTAGCAGAGCTGATGATCTACATCTCCATGGCTGTCACCTTTGGGCTCCACA  
 ACTTAACCTGGTGGCTGGTGGTACGTATGTCTTCTTTCAGCCAAGCCTTGTCCGATTCTTCAACCACAA  
 GTTCTACAGAAGCACATTTGTCTCTACCCAAAGCATAGGAAAGCGTTCTCCATTTTTGTTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202220 representing BC014771  
 Red=Cloning site Green=Tags(s)

MESKASLGCQRLSWLCLPSWSWSSGSTAFGDSLSTASASSLMQPFSSCSTVSGSCLLCACWPDCTEPN  
 APMDKNNVYVLGKNLLIQARWFHILGMVMFFWSSAHQYKCHVILSNLRRNKKGVVIHCQHRIPFGDWFEY  
 VSSANYLAELMIYISMAVTFGLHNLTWLWVVTYVFFSQALSAFFNHKFYRSTFVSPYKHKRKAFLPFLF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** BC014771

**ORF Size:** 624 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:**

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:** [BC014771.1](#)

**RefSeq Size:** 1436 bp

**RefSeq ORF:** 626 bp

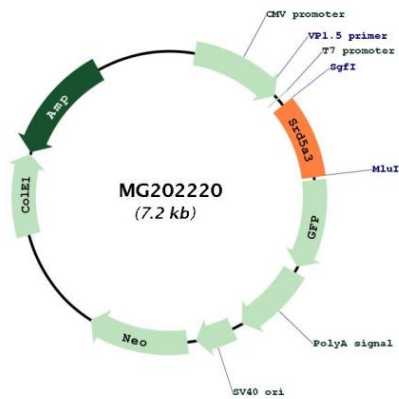
**Locus ID:** 57357

**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]

**Product images:**



Circular map for MG202220