

## Product datasheet for **SC300053**

### STAR (NM\_000349) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAR (NM_000349) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAR
Synonyms:	STARD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC010550 edited  
GGCAGCAGCAGCGCGGCAGCAGCAGCGGCAGCGACCCACCCTGCCACATTTGCCAGG  
AAACAATGCTGCTAGCGACATTTCAAGCTGTGCGCTGGGAGCTCCTACAGACACATGCGCA  
ACATGAAGGGGCTGAGGCAACAGGCTGTGATGGCCATCAGCCAGGAGCTGAACCGGAGGG  
CCCTGGGGGGCCACCCTAGCACGTGGATTAACCAGGTTTCGGCGGCGGAGCTCTCTAC  
TCGGTTCTCGGCTGGAAGAGACTCTCTACAGTGACCAGGAGCTGGCCTATCTCCAGCAGG  
GGGAGGAGGCCATGCAGAAGGCCTTGGGCATCCTTAGCAACCAAGAGGGCTGGAAGAAGG  
AGAGTCAGCAGGACAATGGGGACAAAGTATGAGTAAAGTGGTCCAGATGTGGGCAAGG  
TGTTCCGGCTGGAGGTCGTGGTGGACCAGCCATGGAGAGGCTCTATGAAGAGCTCGTGG  
AGCGCATGGAAGCAATGGGGAGTGGAACCCCAATGTCAAGGAGATCAAGTCTGCAGA  
AGATCGGAAAAGATACATTCATTACTCAGAGCTGGCTGCCGAGGAGCAGGAAACCTGG  
TGGGGCCCGTGACTTTGTGAGCGTGCGCTGTGCCAAGCGCCAGGCTCCACCTGTGTGC  
TGCTGGCATGGCCACAGACTTCGGGAACATGCCTGAGCAGAAGGGTGTATCAGGGCGG  
AGCACGGTCCCCTTGCATGGTGTTCACCCGTTGGCTGGAAGTCCCTCTAAGACCAAAC  
TTACGTGGCTACTCAGCATCGACCTCAAGGGTGGCTGCCAAGAGCATCATCAACCAGG  
TCCTGTCCAGACCCAGGTGGATTTTGCCAACCACCTGCGCAAGCGCCTGGAGTCCCACC  
CTGCCTCTGAAGCCAGGTGTTGAAGACCAGCCTGCTGTTCCCACTGTGCCAGCTGCAC  
TGGTGACAGTGGGATGGGTGGGTTTCGTGTTAGAGTATGACACTAGGATTGAGTGGT  
GAAAGTTTTAGTACCAAGAAAACAGGGATGAGGCTCTTGGATTAAGGTAAGTTCATT  
CACTGATTAGCTATGACATGAGGGTTCAGGCCCTAAAATAATTGTAAGTCTTTTTTCT  
GGGCCCTTATGTACCCACCTAAAACCTCTTTAAAATGCTAGTGGCTGATATGGGTGTGG  
GGGATGCTAACCCAGGGCCTGAGAAGTCTTGCTTTATGGGCTCAAGAATGCCATGCGCT  
GGCAGTACATGTGCACAAAGCAGAATCTCAGAGGGTCTCCTGCAGCCCTCTGCTCCTCCC  
GGCCGCTGCACAGCAACACCACAGAACAAGCAGCACCCACAGTGGGTGCCTTCCAGAAA  
TATAGTCCAAGCTTTCTCTGTGAAAAAAGACAAAACCTATTAGTAGACATGTTCCCTAT  
TGCTTTCATAGGCACCAGTCAGAATAAAGAATCATAATTACACAAAAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000349
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_000349.2.
<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_000349.2</a> , <a href="#">NP_000340.2</a>
<b>RefSeq Size:</b>	2695 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	6770
<b>UniProt ID:</b>	<a href="#">P49675</a>
<b>Cytogenetics:</b>	8p11.23
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	The protein encoded by this gene plays a key role in the acute regulation of steroid hormone synthesis by enhancing the conversion of cholesterol into pregnenolone. This protein permits the cleavage of cholesterol into pregnenolone by mediating the transport of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane. Mutations in this gene are a cause of congenital lipoid adrenal hyperplasia (LAH), also called lipoid CAH. A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jul 2008]