

Product datasheet for **SC301184**

STAR (NM_001007243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAR (NM_001007243) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAR
Synonyms:	cholesterol trafficker; mitochondrial steroid acute regulatory protein; StAR-related lipid transfer (START) domain containing 1; STARD1; START domain containing 1; steroid acute regulatory protein; steroidogenic acute regula; steroidogenic acute regulator
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene sequence for NM_001007243 edited</p> <pre> ATCGTCCGACCCACGCGTCCGGGCAGCAGCAGCGCGGCAGCAGCAGCGCGCAGCGACCCCA CCACTGCCACATTTGCCAGGAAACAATGCTGCTAGCGACATTCAGCTGTGCGCTGGGAG CTCCTACAGACACATGCGCAACATGAAGGGGCTGAGGCAACAGGCTGTGATGGCCATCAG CCAGGAGCTGAACCGGAGGGCCCTGGGGGGCCCCACCCCTAGCACGTGGATTAACCAGGT TCGGCGGCGGAGCTCTCTACTCGGTTCTCGGCTGGAAGAGACTCTCTACAGTGACCAGGA GCTGGCCTATCTCCAGCAGGGGGAGGAGCCATGCAGAAGGCCTTGGGCATCCTTAGCAA CCAAGAGGGCTGGAAGAAGGAGAGTCAGCAGGACAATGGGGACAAAGTGATGAGTAAAGT GGTCCCAGATGTGGGCAAGGTGTTCCGGCTGGAGGTCGTGGTGGACCAGCCCATGGAGAG GCTCTATGAAGAGCTCGTGGAGCGCATGGAAGCAATGGGGGAGTGAACCCCAATGTCAA GGAGATCAAGGTCTGCAGAAGATCGGGGGGCCCGTGACTTTGTGAGCGTGCGCTGTGC CAAGCGCCGAGGCTCCACCTGTGTGCTGGCTGGCATGGCCACAGACTTCGGGAACATGCC TGAGCAGAAGGGTGCATCAGGGCGGAGCACGGTCCCCTTGCATGGTGTTCACCCGTT GGCTGGAAGTCCCTCTAAGACCAAACCTTACGTGGCTACTCAGCATCGACCTCAAGGGGTG GCTGCCCAAGAGCATCATCAACCAGGTCCTGTCCAGACCCAGGTGGATTTTGCCAACCA CCTGCGCAAGCGCTGGAGTCCCACCCTGCCTCTGAAGCCAGGTGTTGAAGACCAGCCTG CTGTTCCCAACTGTGCCAGCTGCACTGGTACACACGCTCATCAGGAGAATCCCTACTGG AAGCCTGCAAGTCTAAGATCTCCATCTGGTGACAGTGGGATGGGTGGGGTTTCGTGTTAG AGTATGACACTAGGATTCAGATTGGTGAAGTTTTTAGTACCAAGAAAACAGGGATGAGG CTCTTGGATTAAGGTAACCTTCACTGATTAGCTATGACATGAGGGTTCAGGCCCC TAAATAATTGTAACCTTTTTTCTGGGCCCTTATGTACCCACCTAAAACCATCTTTAA AATGCTAGTGGCTGATATGGGTGTGGGGATGCTAACCACAGGGCCTGAGAAGTCTTGCT TTATGGGCTCAAGAATGCCATGCGCTGGCAGTACATGTGCACAAAGCAGAATCTCAGAGG GTCTCCTGCAGCCCTCTGCTCCTCCCGCGCTGCACAGCAACACCACAGAACAAGCAGC ACCCACAGTGGGTGCCTTCCAGAAATATAGTCCAAGCTTTCTCTGTGAAAAAGACAAA ACTCATTAGTAGACATGTTCCCTATTGCTTTCATAGGCACCAGTCAGAATAAAGAATCA TAATTCACACAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001007243
Insert Size:	1500 bp
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001007243.1, NP_001007244.1</u>
RefSeq Size:	2641 bp
RefSeq ORF:	804 bp
Locus ID:	6770
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses alternate, in-frame splice sites in the coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.</p>