

Product datasheet for **SC122222**

STAR (BC010550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAR (BC010550) 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)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for BC010550 edited
 GGCAGCAGCAGCGCGGCAGCAGCAGCGGCAGCGACCCACCCTGCCACATTTGCCAGG
 AAACAATGCTGTAGCGACATTCAGGCTGTGCGCTGGGAGCTCCTACAGACACATGCGCA
 ACATGAAGGGGCTGAGGCAACAGGCTGTGATGGCCATCAGCCAGGAGCTGAACCGGAGGG
 CCCTGGGGGGCCCCACCCTAGCACGTGGATTAACCAGGTTGGCGGGGAGCTCTCTAC
 TCGGTTCTCGGCTGGAAGAGACTCTCTACAGTGACCAGGAGCTGGCCTATCTCCAGCAGG
 GGGAGGAGGCCATGCAGAAGGCCTTGGGCATCCTTAGCAACCAAGAGGGCTGGAAGAAGG
 AGAGTCAGCAGGACAATGGGGACAAAGTGATGAGTAAAGTGGTCCCAGATGTGGCAAGG
 TGTTCCGGCTGGAGTCTGTGGTGGACCAGCCATGGAGAGGCTCTATGAAGAGCTCGTGG
 AGCGCATGGAAGCAATGGGGGAGTGGAACCCCAATGTCAAGGAGATCAAGGCTCTGCAGA
 AGATCGGAAAAGATACATTCATTACTCACGAGCTGGCTGCCGAGGCAGCAGGAAACCTGG
 TGGGGCCCCGTGACTTTGTGAGCGTGGCTGTGCCAAGCGCCGAGGCTCCACCTGTGTGC
 TGGCTGGCATGGCCACAGACTTCGGGAACATGCCTGAGCAGAAGGGTGTGCATCAGGGCGG
 AGCACGGTCCCCTTGCATGGTGTTCACCCGTTGGCTGGAAGTCCCTCTAAGACCAAC
 TTACGTGGCTACTCAGCATCGACCTCAAGGGGTGGCTGCCAAGAGCATCATCAACCAGG
 TCCTGTCCAGACCCAGTGGATTTTGCAACCACCTGCCAAGCGCCTGGAGTCCCACC
 CTGCCTCTGAAGCCAGGTGTTGAAGACCAGCCTGCTGTTCCCACTGTGCCAGCTGCAC
 TGGTACACACGCTCATCAGGAGAATCCCTACTGGAAGCCTGCAAGTCTAAGATCTCCATC
 TGGTGACAGTGGGATGGGTGGGGTTCGTGTTTAGAGTATGACACTAGGATTAGATTGGT
 GAAAGTTTTAGTACCAAGAAAACAGGGATGAGGCTCTTGGATTAAGGTAACCTCATT
 CACTGATTAGCTATGACATGAGGGTTACGGCCCTAAAATAATTGTAACACTTTTTTCT
 GGGCCCTTATGTACCCACCTAAAACCATCTTTAAAATGCTAGTGGCTGATATGGGTGTGG
 GGGAGTAAACCACAGGGCCTGAGAAGTCTTGTATGGGCTCAAGAATGCCATGCGCT
 GGCAGTACATGTGACAAAAGCAGAATCTCAGAGGTCTCCTGCAGCCCTCTGCTCCTCCC
 GGCCGCTGCACAGCAACACCACAGAACAAGCAGCACCCACAGTGGGTGCCTTCCAGAAA
 TATAGTCCAAGCTTTCTCTGTGAAAAAGACAAAACCTATTAGTAGACATGTTTCCCTAT
 TGCTTTCATAGGCACCAGTCAGAATAAAGAATCATAATTACACAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC010550 unedited
 ACTTGGATTTGNTAAACGACTTACTATAGGCGGCCGACGATCCCGGGATATCGTCGACC
 CACGCGTCCGGGCAGCAGCAGCGCGGCAGCAGCAGCGGCAGCGACCCACCCTGCCAC
 ATTTGCCAGGAAACAATGCTGCTAGCGACATTCAGGCTGTGCGCTGGGAGCTCCTACAGA
 CACATGGCAACATGAAGGGGCTGAGGCAACAGGCTGTGATGGCCATCAGCCAGGAGCTG
 AACCGGAGGGCCCTGGGGGGCCCCACCCTAGCACGTGGATTAACCAGGTTGGCGGGCGG
 AGCTCTCTACTCGGTTCTCGGCTGGAAGAGACTCTCTACAGTGACCAGGAGCTGGCCTAT
 CTCCAGCAGGGGGAGGAGGCCATGCAGAAGGCCTTGGGCATCCTTAGCAACCAAGAGGGC
 TGGAAGAAGGAGAGTCAGCAGGACAATGGGGACAAAGTGATGAGTAAAGTGGTCCCAGAT
 GTGGGCAAGGTGTTCCGGCTGGAGTCTGGTGGACCAGCCATGGAGAGGCTCTATGAA
 GAGCTCGTGGAGCGCATGGAAGCAATGGGGGAGTNGACCCCAATGTCAAAGGAGATCAA
 GGTCTGCAGAAGATCGGANAAGATACATTCATTACTCACGAGCTGGCTGCCGAGGCAGC
 AGGAAACNTGGTGNNGGCCCGTGACTTTGTGAGCGTGGCTGTGCCAAGCGCCGAGGCT
 CACCTGTGTGCTGGCTGGCATGGCCACAGACTTCGGGGACATGCCTGAGCAGAAGGGTGT
 CATCAGGGCGGAGCAGGTCCCCTTGCATGGTGTTCACCGTTGGGCTGGAGTCCCTC
 TAAGACCAAACTACGTGGCTACTCAGCATCGACCCTCAGGGGTGGGCTGCCAAGAGCAT
 CATCAACCAGGTCCTGTNCCAGACCCAGTGGATTTTTCACCACCC

Restriction Sites: Please inquire

ACCN: BC010550

Insert Size: 1559 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).
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:	BC010550.1 , AAH10550.1
RefSeq Size:	1559 bp
Locus ID:	6770
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome
Gene Summary:	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]