

Product datasheet for **RG203803**

STAR (NM_000349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAR (NM_000349) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAR
Synonyms:	STARD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203803 representing NM_000349 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTAGCGACATTCAAGCTGTGCGCTGGGAGCTCCTACAGACACATGCGCAACATGAAGGGGCTGA
GGCAACAGGCTGTGATGGCCATCAGCCAGGAGCTGAACCGGAGGGCCCTGGGGGGCCCCACCCCTAGCAC
GTGGATTAACCAGGTTCCGGCGCGGAGCTCTACTCGGTTCTCGGCTGGAAGAGACTCTCTACAGTGAC
CAGGAGCTGGCCTATCTCAGCAGGGGGAGGAGCCATGCAGAAGGCCTTGGGCATCCTTAGCAACCAAG
AGGGCTGGAAGAAGGAGAGTCAGCAGGACAATGGGGACAAAGTGATGAGTAAAGTGGTCCCAGATGTGGG
CAAGGTGTTCCGGCTGGAGGTCGTGGTGGACCAGCCATGGAGAGGCTCTATGAAGAGCTCGTGGAGCGC
ATGGAAGCAATGGGGGAGTGGAACCCCAATGTCAAGGAGATCAAGGTCTGCAGAAGATCGGAAAAGATA
CATTCACTACTCACGAGCTGGCTGCCGAGGCAGCAGGAAACCTGGTGGGGCCCCGTGACTTTGTGAGCGT
GCGCTGTGCCAAGCGCCGAGGCTCCACCTGTGTGCTGGCTGGCATGGCCACAGACTTCGGGAACATGCCT
GAGCAGAAGGGTGTATCAGGGCGGAGCACGGTCCCCTTGCATGGTGTTCACCCGTTGGCTGGAAGTC
CCTTAAGACAACTTACGTGGCTACTCAGCATCGACCTCAAGGGGTGGCTGCCAAGAGCATCATCAA
CCAGGTCTGTCCAGACCCAGGTGGATTTTGCACACCTGCGCAAGCGCCTGGAGTCCCACCCCTGCC
TCTGAAGCCAGGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203803 representing NM_000349
Red=Cloning site Green=Tags(s)

MLLATFKLCAGSSYRHRNMKGLRQQAVMAISQELNRRALGGPTPSTWINQVRRRSSLLGSRL EETLYSD
 QELAYLQQGEEAMQKALGILSNQEGWKKE SQQDNGDKVMSKVVPDVGKVFRL EVVVDQPMERLYEELVER
 MEAMGEWNPNVKEIKVLQKIGKDTFITH ELAAEAAGNLVGPRDFVSVRCAKRRGSTCVLAGMATDFGNMP
 EQKGVIRAEHGPTCMVLHPLAGSPSKTKLTWLLSIDLKGWLPKSIINQVLSQTQVDFANHLRKRLESHPA
 SEARC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000349

ORF Size: 855 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: [NM_000349.3](#)

RefSeq Size: 2695 bp

RefSeq ORF: 858 bp

Locus ID: 6770

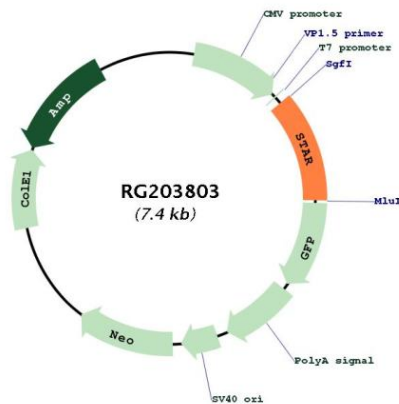
UniProt ID: [P49675](#)

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 lipid adrenal hyperplasia (LAH), also called lipid CAH. A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203803