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Product datasheet for RG210819

HS3ST2 (NM_006043) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST2 (NM_006043) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HS3ST2
Synonyms:	3OST2; 30ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG210819 representing NM_006043
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTATAGGGTCCTGGGCCGCGCGGGGCCACCTCAGCCGCGGAGGGCGCGCAGGCTGCTCTTCGCCT
TCACGCTCTCGCTCTCCTGCACTTACCTGTGTTACAGCTTCCTGTGCTGCTGCGACGACCTGGGTCGGAG
CCGCCTCCTCGGCGCGCCTCGCTGCCTCCGCGGCCCCAGCGCGGGCGGCCAGAAACTTCTCCAGAAGTCC
CGCCCCTGTGATCCCTCCGGGCCGACGCCCAGCGAGCCCAGCGCTCCCAGCGCGCCCGCCGCCGCCGTGC
CCGCCCCTCGCCTCTCCGGTTCCAACCACTCCGGCTCACCCAAGCTGGGTACCAAGCGGTTGCCCCAAGC
CCTCATTGTGGGCGTGAAGAAGGGGGGCACCCGGGCCGTGCTGGAGTTTATCCGAGTACACCCGGACGTG
CGGGCCTTGGGCACGGAACCCCACTTCTTTGACAGGAACTACGGCCGCGGGCTGGATTGGTACAGGAGCC
TGATGCCCAGGACCCTCGAGAGCCAGATCACGCTGGAGAAGACGCCCAGCTACTTTGTCACTCAAGAGGC
TCCTCGACGCATCTTCAACATGTCCCGAGACACCAAGCTGATCGTGGTTGTGCGGAACCCTGTGACCCGT
GCCATCTCTGATTACACGCAGACACTCTCCAAGAAGCCCGACATCCCGACCTTTGAGGGCCTCTCCTTCC
GCAACCGCACCCTGGGCCTGGTGGACGTGTCATGGAACGCCATCCGCATCGGCATGTACGTGCTGCACCT
GGAGAGCTGGCTGCAGTACTTCCCGCTAGCTCAGATTCACTTCGTCAGTGGCGAGCGACTCATCACTGAC
CCGGCCGGCGAGATGGGGCGAGTCCAGGACTTCCTGGGCATTAAGAGATTCATCACGGACAAGCACTTCT
ATTTCAACAAGACCAAAGGATTCCCTTGCTTGAAAAAAACAGAATCGAGCCTCCTGCCTCGATGCTTGGG
CAAATCAAAAGGGAGAACTCATGTACAGATTGATCCTGAAGTGATAGACCAGCTCCGAGAATTTTATAGA
CCGTATAATATCAAATTTTATGAAACCGTTGGGCAGGACTTCAGGTGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

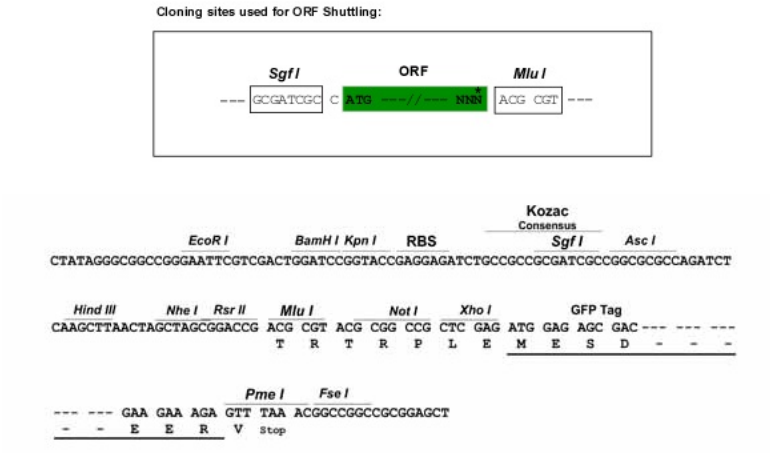
>RG210819 representing NM_006043
Red=Cloning site Green=Tags(s)

MAYRVLGRAGPPQPRRARRLLFAFTLSLSCTYLCYSFLCCCDDLGRSRLLGAPRCLRGPSAGGQKLLQKS
RPCDPSGPTPSEPSAPSAPAAAVPAPRLSGSNHSGSPKLGTKRLPQALIVGVKKGGTRAVLEFIRVHPDV
RALGTEPHFFDRNYGRGLDWYRSLMPRTLESQITLEKTPSYFVTQEAPRRIFNMSRDTKLIVVVRNPVTR
AISDYTQTLSKKPDIPTFEGLSFRNRTLGLVDVSWNAIRIGMYVLHLESWLQYFPLAQIHFVSGERLITD
PAGEMGRVQDFLGIKRFITDKHFYFNKTKGFPCLKKTESSLLPRCLGKSKGRTHVQIDPEVIDQLREFYR
PYNIKFYETVGQDFRWE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006043

ORF Size: 1101 bp

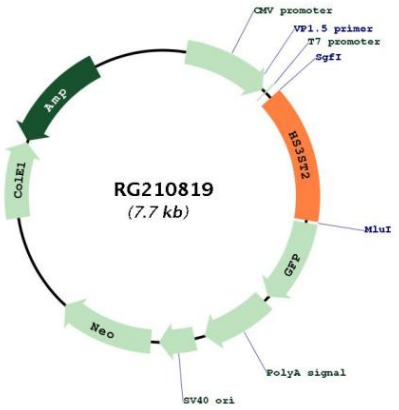
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006043.2
RefSeq Size:	1968 bp
RefSeq ORF:	1104 bp
Locus ID:	9956
UniProt ID:	Q9Y278
Cytogenetics:	16p12.2
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis
Gene Summary:	Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. It is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity. This gene is expressed predominantly in brain and may play a role in the nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210819