

Product datasheet for **RG222279**

HS3ST6 (NM_001009606) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST6 (NM_001009606) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HS3ST6
Synonyms:	3-OST-6; HS3ST5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222279 representing NM_001009606 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTCGTGGCCCTGGTGTCTGGCGCCTACTGCCTCTGCGCCCTCCCCGGCCGCTGCCCGCCGGCCG
CCCGCGCCCCCGCGCCGCCCGCCCGCCCTCCGAGCCGTCCAGCTCCGTCCACCGCCCGGGAGCACCCGG
CCTGCCTTTGGCCAGCGGTCCCAGCCGCGCGCTTCCCAGCAAGCGCTCATCGTTGGCGTGAAGAAGGGC
GGCACGCGCCCTGCTGGAGTTTCTGCGGCTGCACCCCGACGTCGCGCGCTGGGCTCTGAGCCCACT
TCTTCGACAGGTGCTACGAGCGCGCCTCGCCTGGTACCGGAGTCTGATGCCCGAACCTGGATGGGCA
GATCACCATGGAGAAGACCCCGACTACTTCGTGACGCGAGAGGCCCGCCCGCATCCACGCCATGTCC
CCGGACACGAAGCTGATCGTGGTGGTGCAGAACCCCGTGACCCGGGCCATCTCCGACTATACCCAGACGC
TCTCCAAGACCCCGGCCCTGCCAGCTTCCGCGCCCTGGCCTTCCGCCACGGCCTGGGCCCGTGGACAC
AGCCTGGAGCGCCGTCCGCATCGCCTGTACGCCAGCACCTGGACCACTGGCTGCGCTACTTCCCCTG
TCCCACTTCTGTTCGTGAGCGGGAGCGTCTGGTACGCGACCCGGCCGGAGAGGTGGCCCGGTGCAGG
ACTTCTGGGCCGTAAACGGGTGTCACGACAAGCACTTCTACTTCAACGCCACCAAGGGCTTCCCCTG
CCTCAAGAAGGCCAGGGCGCAGCCGTCCCCTGCTGCTGGGCAAGTCCAAGGGCCGGCCACCCACGC
GTGCCCCAGGCCGTGGTCCGGCGCTGCAGGAGTTCTACCGCCCTTCAACCGCAGGTTCTACCAGATGA
CGGGCCAGGACTTCGGCTGGGGC

AGCGGACCGACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA



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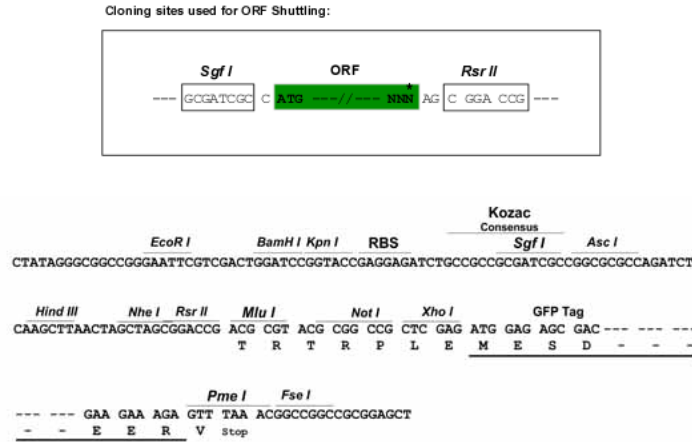
Protein Sequence: >RG222279 representing NM_001009606
 Red=Cloning site Green=Tags(s)

MLLVALVLGAYCLCALPGRCPAAARAPAPAPAPSEPSSSVHRPGAPGLPLASGPGRRRFPQALIVGVKKG
 GTRALLEFLRLHPDVRLGSEPHFFDRCYERGLAWYRSLMPRTL DQGITMEKTPSYFVTREAPRRIHAMS
 PDTKLI VVVRNPVTRAI SDYTQTL SKTPGLPSFRALAFRHGLGPVDTAWSAVRIGLYAQHL DHWLR YFPL
 SHFLFVSGERLVSDPAGEVGRVQDFLGLKRVVTDKHFYFNATKGFPC LKKAQGGSRPRCLGKSKGRPHPR
 VPQAVVRR LQEFYRPFNRRFYQMTGQDFGWG

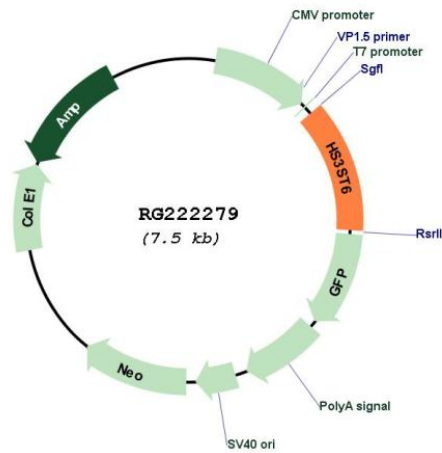
SGP TRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009606

ORF Size: 936 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:	<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:	NM_001009606.1 , NP_001009606.1
RefSeq Size:	936 bp
RefSeq ORF:	1029 bp
Locus ID:	64711
UniProt ID:	Q96QI5
Cytogenetics:	16p13.3
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to heparan sulfate. The substrate-specific O-sulfation generates an enzyme-modified heparan sulfate which acts as a binding receptor to Herpes Simplex Virus-1 (HSV-1) and permits its entry. Unlike 3-OST-1, does not convert non-anticoagulant heparan sulfate to anticoagulant heparan sulfate.[UniProtKB/Swiss-Prot Function]