

Product datasheet for **RG208207**

Syntaxin 2 (STX2) (NM_001980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 2 (STX2) (NM_001980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STX2
Synonyms:	EPIM; EPM; STX2A; STX2B; STX2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208207 representing NM_001980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGACCGGCTGCCAGACCTGACGGCGTGTAGGAAGAATGATGATGGAGACACAGTTGTTGTGGTTG
AGAAAGATCATTTTCATGGATGATTTCTTCCATCAGGTGGAGGAGATTAGAAACAGTATTGATAAAATAAC
TCAATATGTTGAAGAAGTAAAGAAAACCACAGCATCATTCTTTCTGCACCAAACCCGGAAGGAAAAATA
AAAGAAGAGCTTGAAGATCTGAACAAAGAAATCAAGAAAACGCAATAAAATTCGAGCCAAGTTAAAGG
CTATTGAACAAAGTTTTGATCAGGATGAGAGTGGGAACCGGACTTCAGTGGATCTTCGGATACGAAGAAC
CCAGCATTCCGGTCTGTCTCGGAAGTTTGTGGAAGCCATGGCGGAGTACAATGAGGCACAGACTCTGTTT
CGGGAGCGGAGCAAAGGCCGATCCAGCGCCAGCTGGAGATAACTGGGAGAACCACCACAGACGACGAGC
TAGAAGAGATGCTGGAGAGCGGGAAGCCATCCATCTTCACTTCCGACATTATATCAGATTCACAAATTAC
TAGACAAGCTCTCAATGAAATCGAGTCACGTCACAAGGACATCATGAAGCTGGAGACCAGCATCCGAGAG
TTGCATGAGATGTTTCATGGACATGGCTATGTTTGTGGAGACTCAGGGTGAATGATCAACAACATAGAAA
GAAATGTTATGAATGCCACAGACTATGTAGAACACGCTAAAGAAGAAACAAAAAAGCTATCAAATATCA
GAGCAAGGCAAGAAGAAATTGATGTTTCATTATTATTTGTGTAATTGTTTGTCTGTGATCCTTGGAAAT
ATCCTAGCAACAACATTGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208207 representing NM_001980
Red=Cloning site Green=Tags(s)

MRDRPLDLTACRKNDDGDTVVVVEKDFMDDFFHQVEEIRNSIDKITQYVEEVKKNHSIILSAPNPEGKI
 KEELEDLNKEIKKTANKIRAKLKAIEQSFDDQDESGNRTSVDLRIRRTQHSVLSRKFVEAMAEYNEAQT
 LFRERSKGRIGRQLEITGRITTTDDELEEMLESGKPSIFTSDIISDSQITRQALNEIESRHKDIMKLETS
 IRE LHEMFMDMAMFVETQGEMINNIERNVMNATDYVEHAKEETKKAIKYQSKARRKLMFIIICVIVLLVILGI
 ILATTLS

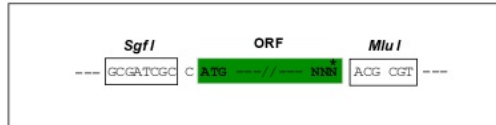
TRTRPLE - GFP Tag - V

Restriction Sites:

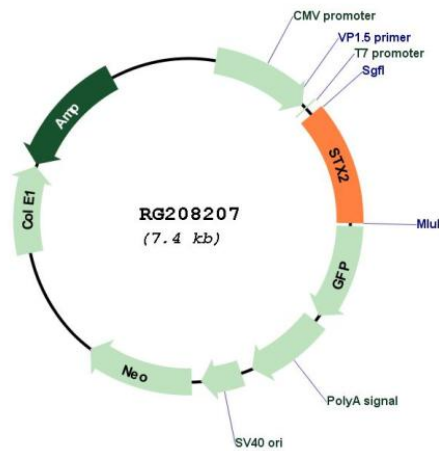
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001980

ORF Size: 861 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_001980.4
RefSeq Size:	3343 bp
RefSeq ORF:	864 bp
Locus ID:	2054
UniProt ID:	P32856
Cytogenetics:	12q24.33
Domains:	t_SNARE, SynN
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
Gene Summary:	The product of this gene belongs to the syntaxin/epimorphin family of proteins. The syntaxins are a large protein family implicated in the targeting and fusion of intracellular transport vesicles. The product of this gene regulates epithelial-mesenchymal interactions and epithelial cell morphogenesis and activation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]