

## Product datasheet for **RG217529**

### Syntaxin 2 (STX2) (NM\_194356) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 2 (STX2) (NM_194356) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntaxin 2
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:	>RG217529 representing NM_194356 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGACCGGCTGCCAGACCTGACGGCGTGTAGGAAGAATGATGATGGAGACACAGTTGTTGGTTG  
AGAAAGATCATTTTCATGGATGATTTCTTCCATCAGGTGGAGGAGATTAGAAACACTATTGATAAAATAAC  
TCAATATGTTGAAGAAGTAAAGAAAACCACAGCATCATTCTTTCTGCACCAAACCGGAAGGAAAAATA  
AAAGAAGAGCTTGAAGATCTGAACAAAGAAATCAAGAAAACGCGAATAAAATTCGAGCCAAGTTAAAGG  
CTATTGAACAAAGTTTTGATCAGGATGAGAGTGGGAACCGGACTTCAGTGGATCTTCGGATACGAAGAAC  
CCAGCATTTCGGTGTCTCGGAAGTTTGTGGAAGCCATGGCGGAGTACAATGAGGCACAGACTCTGTTT  
CGGGAGCGGAGCAAAGGCCGATCCAGCGCCAGCTGGAGATAACTGGGAGAACCACCACAGACGACGAGC  
TAGAAGAGATGCTGGAGAGCGGGAAGCCATCCATCTTCACTTCCGACATTATATCAGATTCACAAATTAC  
TAGACAAGCTCTCAATGAAATCGAGTCACGTACAAGGACATCATGAAGCTGGAGACCAGCATCCGAGAG  
TTGCATGAGATGTTTCATGGACATGGCTATGTTTGTGGAGACTCAGGGTGAATGATCAACAACATAGAAA  
GAAATGTTATGAATGCCACAGACTATGTAGAACACGCTAAAGAAGAAACAAAAAAGCTATCAAATATCA  
GAGCAAGGCAAGAAGGAAAAAGTGATAATTATTGCTGTGTCAAGTGGTTCTGTTGCCATAATCGCTCTA  
ATTATTGGCTTTCAGTTGGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217529 representing NM\_194356  
 Red=Cloning site Green=Tags(s)

MRDRLPDLTACRKNDGDVTVVVEKDFMDDFFHQVEEIRNTIDKITQYVEEVKKNHSIILSAPNPEGKI  
 KEELEDLNKEIKKTANKIRAKLKAIEQSFDDQDESGNRTSVDLRIRRTQHSVLSRKFEAMAEYNEAQTFLF  
 RERSKGRIQRQLEITGRITTTDDELEEMLESGKPSIFTSDIISDSQITRQALNEIESRHKDIMKLETSIRE  
 LHEMFMDMAMFVETQGEMINNIERNVMNATDYVEHAKEETKKAIKYQSKARRKKWIIIAVSVVLVAIAL  
 IIGLSVGK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_194356

**ORF Size:** 864 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\\_194356.1](#), [NP\\_919337.1](#)

**RefSeq Size:** 3469 bp

**RefSeq ORF:** 867 bp

**Locus ID:** 2054

**UniProt ID:** [P32856](#)

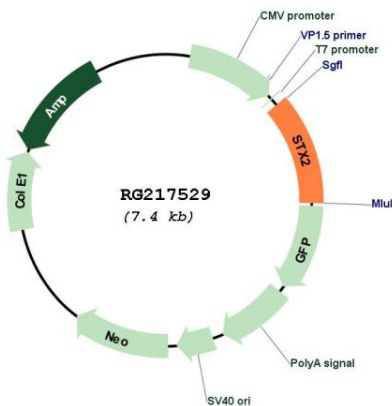
**Cytogenetics:** 12q24.33

**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]

## Product images:



Circular map for RG217529