

## Product datasheet for **RN207826**

### Stam2 (NM\_001012085) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stam2 (NM_001012085) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Stam2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207826 representing NM\_001012085  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTCTGTTCACTGCCAACCCATTTCGAGCAAGATGTGGAAAAAGCCACAACAGTACAACACCACAG  
 AAGACTGGAGTCTGATCATGGACATCTGTGACAGGTTGGAAGCACTCCCAATGGAGCAAAGGATTGCCT  
 AAAAGCTATAATGAAAAGGGTAAACCATAAGGTCCTCATGTTGCTCTGCAGGCATTAACCTTCTTGGA  
 GCTTGTGTGGCAAAGTGTGGAAAGATATTTCAATTTAGAAGTATGTTCCCGTGATTTTGAACAGAAGTAC  
 GTGCTGTGATAAAAAATAAGGCTCATCCTAAAGTATGTGAAAAACTGAAATCTCTAATGGTAGAATGGTC  
 AGAAGAATTCAGAAGGACCCCCAATTTAGTCTGATATCTGCAACTATTAAGGCTATGAAAGAAGAAGGA  
 GTTACTTTTCTTCAGCAGGTTCCAGACTGTCTCGGCTGCTGCCAAAAACGGGGCATCACTGAACAAAA  
 ACAAGAAGACGAGGACATAGCTAAAGCTATTGAGTTATCGTTGCAAGAGCAGAAGCAGCAGTACCCGGA  
 GACGAAGGCTCTGTGTCCACCCGACAGAGCCAGTTGAGTAATAAGGTTGCACGGAGAGTTAGAGCTCTA  
 TACGACTTTGAGGCCGTTGAGGACAACGAGCTCACCTTTAAACACGGCGAGATTACTGTTTTGGATG  
 ACAGTGATGCCAACTGGTGGGAAGGAGAAAAATCACAGAGGAGCAGGACTTTCCTCCAGCTTCGTAAC  
 GACTGATTTAAGCACCGAGGTTGAGGCGCAACAGTGGACAAATCGAATGTAATTGATGACGATGTGGAG  
 GAAATTAAGAAGTCGGAACCTGAGCCTGTTTATATAGATGAGGGTAAAAATGGACCGAGCCCTGCAGATTC  
 TCCAGAGCATAGACCCAAAAGATCCAAAACCCGACTCCCAGGACCTTTAGACTTGAAGATATTTGCCA  
 ACAGATGGGTCCAATGATAGATGAAAAACTTGAAGAAATGATAGGAGGCACTCAGAGCTGTCGGAGCTG  
 AACGTAAGGTGCTGGAGGCCCTGGAGCTGTACAACAAATGGTCAATGAAGCGCCCATGTAAGTCACTCT  
 ATTCGAAGCTCCACCCGGCTCCTTACTCAGCCACAGCAGCTGGGGTCCAGTGCAGACATACCCAGTCCA  
 GTCGCATGGTGGAACTACCTGGGTCATGGCATTACCAAGTACCTGTTGCCAGAGCTATAACCTAGGA  
 CCTGATCCTATGGGCTCATCGAGGCTCTGCTCCAAATATGAACTCAGTAACAGCACACACCATCCAAC  
 CTCCATATTTAAGCACTGGACAGGACGCTGTCTCAACCCCTTCTTACATGACCCAGAGCTCTCATTTCA  
 GGCAGCTGCTGGGACAGCTGCTTACACACCAGCCATGGGGGTGTCTGCAGACCTGTCTCTTTCCAGAGC  
 ACAGCATCCGTTTGCCTCAGCTGGCTGGCTTTCCAGTGGCAGTTCTGTACCTCCAGCCCCACAGCCAC  
 AAGCAAGTTACCACCAGCAGCCACTCTT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001012085
- Insert Size:** 1572 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001012085.1](#), [NP\\_001012085.1](#)

**RefSeq Size:** 1846 bp

**RefSeq ORF:** 1572 bp

**Locus ID:** 311030

**UniProt ID:** [Q5XHY7](#)

**Cytogenetics:** 3q12

**Gene Summary:** Involved in intracellular signal transduction mediated by cytokines and growth factors. Upon IL-2 and GM-CSL stimulation, it plays a role in signaling leading to DNA synthesis and MYC induction. May also play a role in T-cell development. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with HGS (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes (By similarity).[UniProtKB/Swiss-Prot Function]