

Product datasheet for **RR207826**

Stam2 (NM_001012085) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR207826 representing NM_001012085
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCTGTTCACTGCCAACCCATTTCGAGCAAGATGTGGAAAAAGCCACAAACGAGTACAACACCACAG
 AAGACTGGAGTCTGATCATGGACATCTGTGACAGGGTTGGAAGCACTCCCAATGGAGCAAAGGATTGCCT
 AAAAGCTATAATGAAAAGGGTAAACCATAAGGTCCTCATGTTGCTCTGCAGGCATTAACCTTCTTGGGA
 GCTTGTGTGGCAAAGTGTGGAAAGATATTTCAATTTAGAAGTATGTTCCCGTGATTTTGAACAGAAGTAC
 GTGCTGTGATAAAAAATAAGGCTCATCCTAAAGTATGTGAAAAACTGAAATCTCTAATGGTAGAATGGTC
 AGAAGAATTCAGAAGGACCCCCAATTTAGTCTGATATCTGCAACTATTAAGGCTATGAAAGAAGAAGGA
 GTTACTTTTCTTCAGCAGGTTCCAGACTGTCTCGGCTGCTGCCAAAAACGGGGCATCACTGAACAAAA
 ACAAGAAGACGAGGACATAGCTAAAGCTATTGAGTTATCGTTGCAAGAGCAGAAGCAGCAGTACCCGGA
 GACGAAGGCTCTGTGTCCACCCGACAGAGCCAGTTGAGTAATAAGGTTGCACGGAGAGTTAGAGCTCTA
 TACGACTTTGAGGCCGTTGAGGACAACGAGCTCACCTTTAAACACGGCGAGATTATTACTGTTTTGGATG
 ACAGTGATGCCAACTGGTGGGAAGGAGAAAAATCACAGAGGAGCAGGACTTTCCTCCAGCTTCGTAAC
 GACTGATTTAAGCACCGAGGTTGAGGCGCAACAGTGGACAAATCGAATGTAATTGATGACGATGTGGAG
 GAAATTAAGAAGTCGGAACCTGAGCCTGTTTATATAGATGAGGGTAAAAATGGACCGAGCCCTGCAGATTC
 TCCAGAGCATAGACCCAAAAGATCCAAAACCCGACTCCCAGGACCTTTAGACTTGGAAAGATATTTGCCA
 ACAGATGGGTCCAATGATAGATGAAAAACTTGAAGAAATGATAGGAGGCACTCAGAGCTGTCGGAGCTG
 AACGTAAGGTGCTGGAGGCCCTGGAGCTGTACAACAAATGGTCAATGAAGCGCCCATGTAACAGTCTA
 ATTCGAAGCTCCACCCGGCTCCTTACTCAGCCACAGCAGCTGGGGTTCCAGTGCAGACATACCCAGTCCA
 GTCGCATGGTGGAACTACCTGGGTCATGGCATTACCAAGTACCTGTTGCCAGAGCTATAACCTAGGA
 CCTGATCCTATGGGCTCATCGAGGCTCTGCTCCAAATATGAACTCAGTAACAGCACACACCATCCAAC
 CTCCATATTTAAGCACTGGACAGGACGCTGTCTCAACCCCTTCTTACATGACCCAGAGCTCTCATTTCA
 GGCAGCTGCTGGGACAGCTGCTTACACACCAGCCATGGGGGTGTCTGCAGACCTGTCTCTTTCCAGAGC
 ACAGCATCCGGTTTGCCTCAGCTGGCTGGCTTTCCAGTGGCAGTTCCTGTACCTCCAGCCCCACAGCCAC
 AAGCAAGTTACCACCAGCAGCCACTCCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207826 representing NM_001012085
 Red=Cloning site Green=Tags(s)

MPLFTANPFEQDVEKATNEYNTTEDWSLIMDIDRVGSTPNGAKDCLKAIMKRVNHKVPHVALQALTLG
 ACVANCGKIFHLEVCSRDFATEVRAVIKNAHPKVCEKLSLMVEWSEEFQKDPQFSLISATIKAMKEEG
 VTFPSAGSQTVSAANKNGASLNKNEDEDIAKAIELSLQEQQQYPETKALCPPAESQLSNKVARRVRAL
 YDFEAVEDNELTFKHGEIITVLDDSDANWWEENHRGAGLFPSSFVTTDLSTEVEAATVDKSNVIDDDVE
 EIKKSEPEPVYIDEGKMDRALQILQSIDPKDPKPSQDLLDLEDICQQMGPMIDEKLEEDRRHSELSEL
 NVKVLLEALELYNKLVNEAPMYSVYSKLHPAPYSATAAGVPVQTYPVQSHGGNYLGHGIHQVPVAQSYNLG
 PDPMGSSRSLPPNMNSVT AHTIQPPYLSTGQDAVSNPSYMTQSSHLQAAAGTAAYTPAMGVSADLSSFQS
 TASGLPQLAGFPVAVPVPAPQPQASVYHQPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

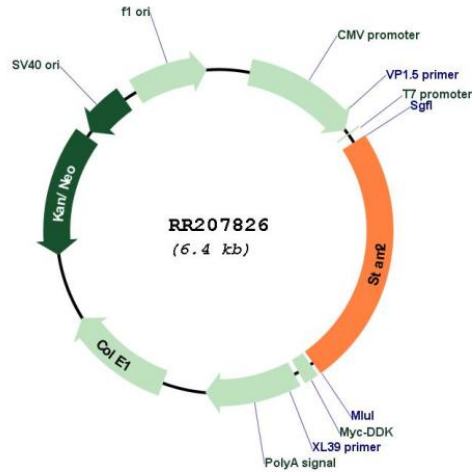
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012085

ORF Size: 1569 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_001012085.1](#), [NP_001012085.1](#)

RefSeq Size: 1846 bp

RefSeq ORF: 1572 bp

Locus ID: 311030

UniProt ID: [Q5XHY7](#)

Cytogenetics: 3q12

MW: 57.2 kDa

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]