

Product datasheet for **MR208368**

Stam2 (NM_019667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stam2 (NM_019667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stam2
Synonyms:	1200004O12Rik; 5730456G07Rik; BB145015; Hbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208368 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTCTGTTCACTGCCAACCCGTTTCGAGCAAGATGTGGAAAAAGCCACAAATGAGTACAACACCACAG
 AAGACTGGAGTCTGATCATGGACATCTGTGACAGGGTTGGAAGCACTCCCAGTGGAGCAAAAAGATTGCCT
 AAAAGCCATAATGAAAAGGGTAAACCATAAGGTCCTCACGTTGCTCTGCAGGCATTGACCCCTTCTGGGA
 GCTTGTGTGGCAAAGTGTGGAAGATATTTCAATTTAGAAGTATGTTCCCGTGATTTTGAACGGAAGTAC
 GTTCTGTGATAAAAAATAAGGCTCATCCTAAAGTATGTGAAAACTAAAACTCTAATGGTGAATGGTC
 AGAAGAATCCAGAAGGACCCCCAATTTAGTCTGATATCTGCAACTATTAAGTCTATGAAAGAAGAAGGG
 GTTACTTTTCTCCGCAGGCTCCAGACTGTCGCGGCTGCTGCCAAAAACGGGACATCATTGAACAAAA
 ACAAGAAGATGAGGACATAGCTAAAGCTATTGAGTTATCGTTGCAAGAGCAGAAGCAGCAGTACACGGA
 GACAAAGGCTTTGTACCCACCCGACAGAGTCACTCAATAACAAGGCTGCACGGAGAGTCAAGCTTTA
 TACGACTTTGAAGCTGTTGAGGACAACGAGCTCACCTTTAAACATGGTGAAGTCTATTACTGTTTTGGATG
 ACAGTGACGCCAACTGGTGGCAAGGAGAAAAATCACAGAGGAACAGGACTCTTCCCCTCCAACCTTTGTAAC
 GACTGACTTAAGCACAGAGGTTGAGACAGCAACGGTGGACAAATTGAATGTAATTGATGATGATGGAG
 GAAATTAAGAAATCAGAACCTGAGCCTGTTTATATAGATGAGGGTAAAAATGGATAGAGCCCTGCAGATTC
 TCCAGAGCATAGATCCAAAAGAGTCAAAACCCGACTCCCAAGACCTCTTGGACTTGAAGATGTTTGCCA
 ACAGATGGGTCCGATGATAGATGAAAACTTGAAGAGATTGATAGGAAGCATTGAGAAGTGTCTGAGTTG
 AACGTAAGGTGCTGGAAGCCCTGGACCTGTACAATAAGTTGGTGAATGAAGCCCTGTACTCGGTTT
 ATTCAAAGCTGCATCCCGCACATTACCCACCCGACAGCTGGGGTTCCAGTGCAGACATCCAGTCCA
 GTCGCATGGTGGAAACTACCTGGGCCACGGCATTACCAAGTATCTGTTGCCAGAACTATAACCTAGGA
 CCTGATCCTATGGGCTCGCTGAGATCTCTGCCTCAAATATGAACTCGGTAACAGCACACACCGTCCAAC
 CTCCATACTTAAGCACTGGACAGGACACTGTCTCAACCCCTTCTTACATGAACCAGAGCTCTCGTCTTCA
 GGCAGCTGCTGGTACAGCTGCTTACACACAGCCTGTGGGGATGTCTACAGATGTGCTTCTTTCCAGAAC
 ACAGCATCCGGTTTGCCTCAGCTGGCTGGCTTCCAGTGGCAGTTCCTGCACCTGTCGCTGCACAGCCAC
 AAGCAAGTACCACCAGCAGCCTCTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208368 protein sequence
 Red=Cloning site Green=Tags(s)

MPLFTANPFEQDVEKATNEYNTTEDWSLIMDICTRVGSTPSGAKDCLKAIMKRVNHKVPHVALQALTLG
 ACVANCGKIFHLEVCSRDFATEVRSVIKNAHPKVCEKLSLMVEWSEEFQKDPQFSLISATIKSMKEEG
 VTFPSAGSQTVAAAANKGTSLNKNKEDEDIAKAIELSLQEQQQYETKALYPPAESQLNNKAARRVRAL
 YDFAVEDNELTFKHGELITVLDDSDANWWQGENHRGTGLFPSNFTTDLSTEVEATVDKLNVIDDDVE
 EIKKSEPEPVYIDEGKMDRALQILQSIDPKESKPDSDLLEEDVCQMQMPMIDEKLEEDRKHSELSEL
 NVKYLEALDLYNKLVNEAPVYSVSKLHPAHYPPAAAGVPVQTYPVQSHGGNYLGHGIHQVSAQNYNLG
 PDPMGSLRSLPPNMNSVTAHTVQPPYLSTGQDTSNPSYMNQSSRLQAAAGTAAYTQPVGMSTDVSSFQN
 TASGLPQLAGFPVAVPAPVAAQQAQSYHQPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_019667

ORF Size: 1572 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_019667.2](#), [NP_062641.1](#)

RefSeq Size: 4124 bp

RefSeq ORF: 1572 bp

Locus ID: 56324

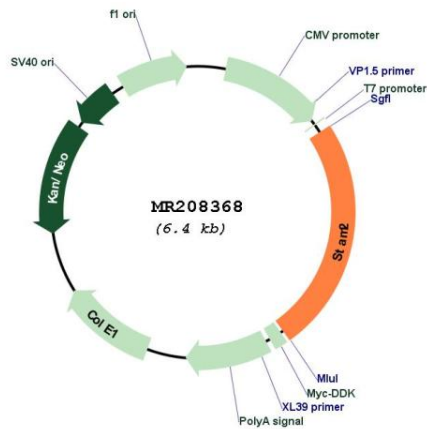
UniProt ID: [O88811](#)

Cytogenetics: 2 C1.1

MW: 57.5 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]

Product images:



Circular map for MR208368