

Product datasheet for **MG208368**

Stam2 (NM_019667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stam2 (NM_019667) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stam2
Synonyms:	1200004O12Rik; 5730456G07Rik; BB145015; Hbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208368 representing NM_019667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCTGTTCACTGCCAACCCGTTTCGAGCAAGATGTGGAAAAAGCCACAAATGAGTACAACACCACAG
 AAGACTGGAGTCTGATCATGGACATCTGTGACAGGGTTGGAAGCACTCCCAGTGGAGCAAAAAGATTGCCT
 AAAAGCCATAATGAAAAGGGTAAACCATAAGGTCCTCACGTTGCTCTGCAGGCATTGACCCCTTCTGGGA
 GCTTGTGTGGCAAAGTGTGGAAGATATTTTCATTTAGAAGTATGTTCCCGTGATTTTGAACGGAAGTAC
 GTTCTGTGATAAAAAATAAGGCTCATCCTAAAGTATGTGAAAACTAAAACTCTAATGGTGAATGGTC
 AGAAGAATCCAGAAGGACCCCCAATTTAGTCTGATATCTGCAACTATTAAGTCTATGAAAGAAGAAGGG
 GTTACTTTTCTCCGCAGGCTCCAGACTGTCGCGGCTGCTGCCAAAAACGGGACATCATTGAACAAAA
 ACAAGAAGATGAGGACATAGCTAAAGCTATTGAGTTATCGTTGCAAGAGCAGAAGCAGCAGTACACGGA
 GACAAAGGCTTTGTACCCACCCGACAGAGTCACTCAATAACAAGGCTGCACGGAGAGTCAAGGCTTTA
 TACGACTTTGAAGCTGTTGAGGACAACGAGCTCACCTTTAAACATGGTGAAGTCTATTACTGTTTTGGATG
 ACAGTGACGCCAACTGGTGGCAAGGAGAAAAATCACAGAGGAACAGGACTCTTCCCTCCAACCTTTGTAAC
 GACTGACTTAAGCACAGAGGTTGAGACAGCAACGGTGGACAAATTGAATGTAATTGATGATGATGGAG
 GAAATTAAGAAATCAGAACCTGAGCCTGTTTATATAGATGAGGGTAAAAATGGATAGAGCCCTGCAGATTC
 TCCAGAGCATAGATCCAAAAGAGTCAAAACCCGACTCCCAAGACCTCTTGGACTTGAAGATGTTTGCCA
 ACAGATGGGTCCGATGATAGATGAAAACTTGAAGAGATTGATAGGAAGCATTGAGAAGTGTCTGAGTTG
 AACGTAAGGTGCTGGAAGCCCTGGACCTGTACAATAAGTTGGTGAATGAAGCGCCTGTGACTCGGTTT
 ATTCAAAGCTGCATCCCGCACATTACCCACCCGACAGCTGGGGTTCCAGTGCAGACATATCCAGTCCA
 GTCGCATGGTGGAAACTACCTGGCCACGGCATTACCAAGTATCTGTTGCCCAGAACTATAACCTAGGA
 CCTGATCCTATGGGCTCGCTGAGATCTCTGCCTCAAATATGAACTCGGTAACAGCACACACCGTCCAAC
 CTCCATACTTAAGCACTGGACAGGACACTGTCTCAACCCCTTCTTACATGAACCAGAGCTCTCGTCTTCA
 GGCAGCTGCTGGTACAGCTGCTTACACACAGCCTGTGGGGATGTCTACAGATGTGCTTCTTCCAGAAC
 ACAGCATCCGGTTTGCCTCAGCTGGCTGGCTTCCAGTGGCAGTCTGCACCTGTGCTGCACAGCCAC
 AAGCAAGTACCACCAGCAGCCTCTCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208368 representing NM_019667
 Red=Cloning site Green=Tags(s)

MPLFTANPFEQDVEKATNEYNTTEDWSLIMDIDRVGSTPSGAKDCLKAIMKRVNHKVPHVALQALTLG
 ACVANCGKIFHLEVCSRDFATEVRSVIKNAHPKVCEKLSLMVEWSEEFQKDPQFSLISATIKSMKEEG
 VTFPSAGSQTVAAAANGTSLNKNKEDEDIAKAIELSLQEQQQYETETKALYPPAESQLNNKAARRVRAL
 YDFEAVEDNELTFKHGELITVLDDSDANWWQGENHRGTGLFSPNFVTTDLSTEVEATATVDKLNVIDDDVE
 EIKKSEPEPVYIDEGKMDRALQILQSIDPKESKPDSQDLLDLEDVCQMQGPMIDEKLEEIDRKHSELSEL
 NVKYLEALDLYNKLVNEAPVYSVSKLHPAHYPPAAAGVPVQTYPVQSHGGNYLGHGIHQVSAQNYNLG
 PDPMGSLRSLPPNMNSVTAHTVQPPYLSTGQDTSNPSYMNQSSRLQAAAGTAAYTQPVGMSTDVSSFQN
 TASGLPQLAGFPVAVPAPVAAQPQASYHQPLL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_019667
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:	<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_019667.2 , NP_062641.1
RefSeq Size:	4124 bp
RefSeq ORF:	1572 bp
Locus ID:	56324
UniProt ID:	O88811
Cytogenetics:	2 C1.1
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]