STAM cDNA Clone – Signal Transducing Adaptor Molecule (SH3 Domain and ITAM Motif) 1 (Human)

PRODUCT OVERVIEW

Product Name	STAM, cDNA Clone
Full Product Name	STAM cDNA Clone
Product Gene Name	STAM cdna clone
Sequence	atgcctcttt ttgccaccaa tcccttcgat caggatgttg agaaagcaac cagcgagatg aatactgctg aggactgggg cctcattttg gatatctgtg ataaagttgg tcagtctcgc actggaccta aggattgtct tcggtctatt atgagaagag tgaaccacaa agatcctcac gttgctatgc aggctttgac tcttctagga gcatgtgtat caaactgtgg caaaattttt catttagaag tatgttcaag agattttgct agtgaagtaa gcaacgtatt aaataagggt catcctaaag tatgtgaaaa attaaaggct cttatggttg aatggacaga tgaatttaag aatgatccac agcttagtct aatatcagca atgattaaga accttaagga acaaggagtt acgttcccag ctattggctc tcaggctgca gaacaagcaa aagcaagccc agctcttgta gccaaggatc ctggtactgt ggctaacaaa aaagaagaag aagatttagc aaaagccatt gagttgtctc tcaaggaaca aaggcagcag tcaaccaccc tttccacttt gtatccaagc acatccagtc tcttaactaa ccaccaacat gaaggccgaa aagttcgtgc tatatatgac tttgaagctg ctgaagacaa tgaacttact tttaaagctg gagaaattat tacagttctt gatgacagtg atcctaactg gtggaaaggt gaaacccatc aaggcatagg gttatttcct tctaattttg tgactgcata tctcactgct gaaccagaaa tgattaaaac agagaagaag acggtacaat ttagtgatga tgttcaggta gagacaatag aaccagagcc ggaaccagcc tttattgatg aagataaaat ggaccagttg ctacagatgc tgcaaagtac agaccccagt gatgatcagc cagacctacc agagctgctt catcttgaag caatgtgtca ccagatggga cctctcattg atgaaaagct ggaagatatt gatagaaaac attcagaact ctcagaactt aatgtgaaag tgatggaggc cctttcctta tataccaagt taatgaacga agatccgatg tattccatgt atgcaaagtt acagaatcag ccaggcagtg gtcccaccat ccgcaaaccc agcccttcct ag
Molecular Weight	44,972 Da
OMIM	601899
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for STAM cdna clone	MBS1273747 is a cDNA clone targeting STAM.
Other Notes	Small volumes of STAM cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAM. It may not necessarily be applicable to this product.

NCBI GI #	34192153
NCBI GeneID	8027
NCBI Accession #	BC030586
UniProt Secondary Accession #	Q8N6D9; B0YJ99; D3DRU5
UniProt Related Accession #	Q92783
NCBI Official Full Name	Homo sapiens signal transducing adaptor molecule (SH3 domain and ITAM motif) 1, mRNA
NCBI Official Synonym Full Names	signal transducing adaptor molecule
NCBI Official Symbol	STAM

NCBI Official Synonym Symbols	STAM1; STAM-1
UniProt Protein Name	Signal transducing adapter molecule 1
Protein Family	Signal transducing adapter molecule
UniProt Gene Name	STAM
UniProt Synonym Gene Names	STAM1; STAM-1
UniProt Entry Name	STAM1_HUMAN
NCBI Protein Information	signal transducing adapter molecule 1
NCBI Summary for STAM	This gene encodes a member of the signal-transducing adaptor molecule family. These proteins mediate downstream signaling of cytokine receptors and also play a role in ER to Golgi trafficking by interacting with the coat protein II complex. The encoded protein also associates with hepatocyte growth factor-regulated substrate to form the endosomal sorting complex required for transport-0 (ESCRT-0), which sorts ubiquitinated membrane proteins to the ESCRT-1 complex for lysosomal degradation. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Feb 2011]
UniProt Comments for STAM	STAM1: 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. Belongs to the STAM family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10p14-p13 Cellular Component: cytosol Molecular Function: protein binding; SH3/SH2 adaptor activity Biological Process: autophagy; endosome transport; negative regulation of epidermal growth factor receptor signaling pathway; signal transduction
Research Articles on STAM	**1.** The VHS domain of STAM1 directs AMSH to cleave longer Lys63-linked ubiquitin chains
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