TRIM32 cDNA Clone – Tripartite Motif-Containing 32 (Human)

PRODUCT OVERVIEW

Product Name	TRIM32, cDNA Clone
Full Product Name	TRIM32 cDNA Clone
Product Gene Name	TRIM32 cdna clone
Sequence	atggctgcag cagcagcttc tcacctgaac ctggatgccc tccgggaagt gctagaatgc cccatctgca tggagtcctt cacagaagag cagctgcgtc ccaagcttct gcactgtggc cataccatct gccgccagtg cctggagaag ctattggcca gtagcatcaa tggtgtccgc tgtccctttt gcagcaagat tacccgcata accagcttga cccagctgac agacaatctg acagtgctaa agatcattga tacagctggg ctcagcgagg ctgtggggct gctcatgtgt cggtcctgtg ggcggcgtct gccccggcaa ttctgccgga gctgtggttt ggtgttatgt gagccctgcc gggaggcaga ccatcagcct cctggccact gtacactccc tgtcaaagaa gcagctgagg agcggcgtcg ggactttgga gagaagttaa ctcgtctgcg ggaacttatg ggggagctgc agcggcggaa ggcagccttg gaaggtgtct ccaaggacct tcaggcaagg tataaagcag ttctccagga gtatgggcat gaggagcgca gggtccagga tgagctggct cgctctcgga agttcttcac aggctctttg gctgaagttg agaagtccaa tagtcaagtg gtagaggagc agagttacct gcttaacatt gcagaggtgc aggctgtgtc tcgctgtgac tacttcctgg ccaagatcaa gcaggcagat gtagcactac tggaggagac agctgatgag gaggagccag agctcactgc cagcttgcct cgggagctca ccctgcaaga tgtggagctc cttaaggtag gtcatgttgg ccccctccaa attggacaag ctgttaagaa gccccggaca gttaacgtgg aagattcctg ggccatggag gccacagcgt ctgctgcctc tacctctgtt acttttagag agatggacat gagcccggag gaagtggttg ccagccctag ggcctcacct gctaaacagc ggggtcctga ggcagcctcc aatatccagc agtgcctctt tctcaagaag atgggggcca aaggcagcac tccaggaatg ttcaatcttc cagtcagtct ctacgtgacc agtcaaggtg aagtactagt cgctgaccgt ggtaactatc gtatacaagt ctttacccgc aaaggctttt tgaaggaaat ccgccgcagc cccagtggca ttgatagctt tgtgctaagc ttccttgggg cagatctacc caacctcact cctctctcag tggcaatgaa ctgccagggg ctgattggtg tgactgacag ctatgataac tccctcaagg tatatacctt ggatggccac tgcgtggcct gtcacaggag ccagctgagc aaaccatggg gtatcacagc cttgccatct ggccagtttg tagtaaccga tgtggaaggt ggaaagcttt ggtgtttcac agttgatcga ggatcagggg tggtcaaata cagctgccta tgtagtgctg tgcggcccaa atttgtcacc tgtgatgctg agggcaccgt ctacttcacc cagggcttag gcctcaatct ggagaatcgg cagaatgagc accacctgga gggtggcttt tccattggct ctgtaggccc tgatgggcag ctgggtcgcc agattagcca cttcttctcg gagaatgagg atttccgctg cattgctggc atgtgtgtgg atgctcgtgg tgatctcatc gtggctgaca gtagtcgcaa ggaaattctc cattttccta agggtggggg ctatagtgtc cttattcgag agggacttac ctgtccggtg ggcatagccc taactcctaa ggggcagctg ctggtcttgg actgttggga tcattgcatc aagatctaca gctaccatct gagaagatat tccaccccat ag
Molecular Weight	71,989 Da
OMIM	254110
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TRIM32 cdna clone	MBS1271549 is a cDNA clone targeting TRIM32.
Other Notes	Small volumes of TRIM32 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 TRIM32. It may not necessarily be applicable to this product.

NCBI GI #	13111962
NCBI GeneID	22954
NCBI Accession #	BC003154
UniProt Secondary Accession #	Q9NQP8
UniProt Related Accession #	Q13049

NCBI Official Full Name	Homo sapiens tripartite motif-containing 32, mRNA
NCBI Official Synonym Full Names	tripartite motif containing 32
NCBI Official Symbol	TRIM32
NCBI Official Synonym Symbols	HT2A; BBS11; TATIP; LGMD2H
UniProt Protein Name	E3 ubiquitin-protein ligase TRIM32
UniProt Synonym Protein Names	72 kDa Tat-interacting protein; Tripartite motif-containing protein 32; Zinc finger protein HT2A
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	TRIM32
UniProt Synonym Gene Names	HT2A
UniProt Entry Name	TRI32_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase TRIM32
NCBI Summary for TRIM32	The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The protein localizes to cytoplasmic bodies. The protein has also been localized to the nucleus, where it interacts with the activation domain of the HIV-1 Tat protein. The Tat protein activates transcription of HIV-1 genes. [provided by RefSeq, Jul 2008]
UniProt Comments for TRIM32	TRIM32: Has an E3 ubiquitin ligase activity. Ubiquitinates DTNBP1 (dysbindin) and promotes its degradation. May play a significant role in mediating the biological activity of the HIV-1 Tat protein in vivo. Binds specifically to the activation domain of HIV-1 Tat and can also interact with the HIV-2 and EIAV Tat proteins in vivo. Defects in TRIM32 are the cause of limb-girdle muscular dystrophy type 2H (LGMD2H); also known as muscular dystrophy Hutterite type. LGMD2H is an autosomal recessive degenerative myopathy characterized by pelvic girdle, shoulder girdle and quadriceps muscle weakness. Clinical phenotype and severity are highly variable. Disease progression is slow and most patients remain ambulatory into the sixth decade of life. Defects in TRIM32 are the cause of Bardet-Biedl syndrome type 11 (BBS11). Bardet-Biedl syndrome (BBS) is a genetically heterogeneous, autosomal recessive disorder characterized by usually severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Secondary features include diabetes mellitus, hypertension and congenital heart disease. A relatively high incidence of BBS is found in the mixed Arab populations of Kuwait and in Bedouin tribes throughout the Middle East, most likely due to the high rate of consaguinity in these populations and a founder effect. Belongs to the TRIM/RBCC family. Protein type: EC 6.3.2.-; EC 6.3.2.19; Ligase; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 9q33.1 Cellular Component: cytoplasm; cytosol; nucleus; striated muscle thick filament Molecular Function: identical protein binding; myosin binding; protein binding; protein self-association; RNA binding; Tat protein binding; transcription coactivator activity; translation initiation factor binding; ubiquitin binding; ubiquitin-protein ligase activity Biological Process: activation of NF-kappaB transcription factor; fat cell differentiation; innate immune response; negative regulation of fibroblast proliferation; negative regulation of viral transcription; positive regulation of cell cycle; positive regulation of cell growth; positive regulation of cell migration; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of neurogenesis; positive regulation of neuron differentiation; positive regulation of protein catabolic process; positive regulation of proteolysis; positive regulation of transcription factor activity; protein polyubiquitination; protein ubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; regulation of interferon type I production; response to UV Disease: Bardet-biedl Syndrome 11; Muscular Dystrophy, Limb-girdle, Type 2h
Research Articles on TRIM32	**1.** Results suggest that Salmonella effector SseK3 binding to host tripartite motif-containing 32 protein (TRIM32) in the inhibition of nuclear factor kappa B (NF-kappaB) activation: [SseK3]

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