ACTL6A cDNA Clone – Actin-Like 6a (Human)

PRODUCT OVERVIEW

Product Name	ACTL6A, cDNA Clone
Full Product Name	ACTL6A cDNA Clone
Product Gene Name	ACTL6A cdna clone
Sequence	atgagcggcg gcgtgtacgg gggagatgaa gttggagccc ttgtttttga cattggatcc tatactgtga gagctggtta tgctggtgag gactgcccca aggtggattt tcctacagct attggtatgg tggtagaaag agatgacgga agcacattaa tggaaataga tggcgataaa ggcaaacaag gcggtcccac ctactacata gatactaatg ctctgcgtgt tccgagggag aatatggagg ccatttcacc tctaaaaaat gggatggttg aagactggga tagtttccaa gctattttgg atcataccta caaaatgcat gtcaaatcag aagccagtct ccatcctgtt ctcatgtcag aggcaccgtg gaatactaga gcaaagagag agaaactgac agagttaatg tttgaacact acaacatccc tgccttcttc ctttgcaaaa ctgcagtttt gacagcattt gctaatggtc gttctactgg gctgattttg gacagtggag ccactcatac cactgcaatt ccagtccacg atggctatgt ccttcaacaa ggcattgtga aatcccctct tgctggagac tttattacta tgcagtgcag agaactcttc caagaaatga atattgaatt ggttcctcca tatatgattg catcaaaaga agctgttcgt gaaggatctc cagcaaactg gaaaagaaaa gagaagttgc ctcaggttac gaggtcttgg cacaattata tgtgtaattg tgttatccag gattttcaag cttcggtact tcaagtgtca gattcaactt atgatgaaca agtggctgca cagatgccaa ctgttcatta tgaattcccc aatggctaca attgtgattt tggtgcagag cggctaaaga ttccagaagg attatttgac ccttccaatg taaaggggtt atcaggaaac acaatgttag gagtcagtca tgttgtcacc acaagtgttg ggatgtgtga tattgacatc agaccaggtc tctatggcag tgtaatagtg gcaggaggaa acacactaat acagagtttt actgacaggt tgaatagaga gctgtctcag aaaactcctc caagtatgcg gttgaaattg attgcaaata atacaacagt ggaacggagg tttagctcat ggattggcgg ctccattcta gcctctttgg gtacctttca acagatgtgg atttccaagc aagaatatga agaaggaggg aagcagtgtg tagaaagaaa atgcccttga
Molecular Weight	43,236 Da
OMIM	604958
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACTL6A cdna clone	MBS1272792 is a cDNA clone targeting ACTL6A.
Other Notes	Small volumes of ACTL6A 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 ACTL6A. It may not necessarily be applicable to this product.

NCBI GI #	22137781
NCBI GeneID	86
NCBI Accession #	BC036371
UniProt Secondary Accession #	Q8TAE5; Q9BVS8; Q9H0W6; B3KMN1; D3DNR9
UniProt Related Accession #	O96019
NCBI Official Full Name	Homo sapiens actin-like 6A, mRNA
NCBI Official Synonym Full Names	actin like 6A
NCBI Official Symbol	ACTL6A
NCBI Official Synonym Symbols	Arp4; ACTL6; BAF53A; INO80K; ARPN-BETA
UniProt Protein Name	Actin-like protein 6A

UniProt Synonym Protein Names	53 kDa BRG1-associated factor A; Actin-related protein Baf53a; ArpNbeta; BRG1-associated factor 53A; BAF53A; INO80 complex subunit K
Protein Family	Actin-like protein
UniProt Gene Name	ACTL6A
UniProt Synonym Gene Names	BAF53; BAF53A; INO80K; BAF53A
UniProt Entry Name	ACL6A_HUMAN
NCBI Protein Information	actin-like protein 6A
NCBI Summary for ACTL6A	This gene encodes a family member of actin-related proteins (ARPs), which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene encodes a 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in S. cerevisiae and Drosophila; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. Three transcript variants that encode two different protein isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for ACTL6A	BAF53A: an actin-related protein involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Required for maximal ATPase activity of the helicase SMARCA4 and for association of the SMARCA4 containing remodelling complex BAF with chromatin/nuclear matrix. A component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of specific genes. Two alternatively spliced human isoforms have been described. Chromosomal Location of Human Ortholog: 3q26.33 Cellular Component: NuA4 histone acetyltransferase complex; nuclear chromatin; nucleoplasm; nucleus; plasma membrane; protein complex; SWI/SNF complex Molecular Function: chromatin binding; nucleosomal DNA binding; protein binding Biological Process: ATP-dependent chromatin remodeling; chromatin remodeling; signal transduction
Research Articles on ACTL6A	**1.** ACTL6A protein expression predicts poor prognosis of hepatocellular carcinoma and metastasis.
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