

Product datasheet for MR227506

Dab2ip (NM_001114124) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dab2ip (NM_001114124) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dab2ip
Synonyms: 2310011D08Rik; AI480459; Aip1; mKIAA1743
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227506 representing NM_001114124
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCGCGCGGCAACGCCAGGAAGAGCACCGGGAGGCCATCCTACTACTACCGGCTGCTGCGGCGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227506 representing NM_001114124
 Red=Cloning site Green=Tags(s)

MSAGGNARKSTGRPSYYRLLRRPRLQRQSRSRSTRPARESPQERPGSRRSLPGSMSEKNPSMEPSAS
 TPFRVTFGLSRRLKGSIKRTKSQPKLDRNHSFRHILPGFRSAAAAADNERSHLMRPLKESRSHELLSP
 SSAVEALDLSMEEVVIKPVHSSILGQDYCFEVTSSGSKCFSCRSAERDKWMENLRRVHPNKDNSRR
 VEHILKLWVIEAKDLPKPKYLCELCLDDVLYARTTSKLTNDNVFWGEHFEFHNLPLRTVTVHL YRETD
 KKKKKERNSYLGLVSLPAASVAGRQFVEKWYPVTPNPKGGKGPMPIRIKARYQTVSILPMEYKEFAE
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 LKPRAMHKQGSPVSPNALDRTAAWLLTMNAQLLEDEGLGDPPPHRDLRSKEEL SQAEKDLAVLQDKLR
 ISTKKLEEYETLFCQEEETTQKLVLEYQARLEEGEERLRQQEDKDIQMKGIISRLMSVEEELKKDHAEM
 QAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQARNGVSPNTPTKLQITENGEFRNSSNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9096_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001114124

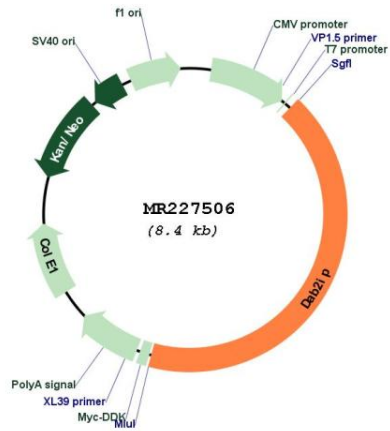
ORF Size: 3567 bp

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_001114124.2 , NP_001107596.1
RefSeq Size:	6540 bp
RefSeq ORF:	3570 bp
Locus ID:	69601
UniProt ID:	Q3UHC7
Cytogenetics:	2 B
MW:	131.7 kDa

Gene Summary:

Functions as a scaffold protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Involved in several processes such as innate immune response, inflammation and cell growth inhibition, apoptosis, cell survival, angiogenesis, cell migration and maturation. Plays also a role in cell cycle checkpoint control; reduces G1 phase cyclin levels resulting in G0/G1 cell cycle arrest. Mediates signal transduction by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF), interferon (IFN) or lipopolysaccharide (LPS). Modulates the balance between phosphatidylinositol 3-kinase (PI3K)-AKT-mediated cell survival and apoptosis stimulated kinase (MAP3K5)-JNK signaling pathways; sequesters both AKT1 and MAP3K5 and counterbalances the activity of each kinase by modulating their phosphorylation status in response to proinflammatory stimuli. Acts as a regulator of the endoplasmic reticulum (ER) unfolded protein response (UPR) pathway; specifically involved in transduction of the ER stress-response to the JNK cascade through ERN1. Mediates TNF-alpha-induced apoptosis activation by facilitating dissociation of inhibitor 14-3-3 from MAP3K5; recruits the PP2A phosphatase complex which dephosphorylates MAP3K5 on 'Ser-966', leading to the dissociation of 13-3-3 proteins and activation of the MAP3K5-JNK signaling pathway in endothelial cells. Mediates also TNF/TRAF2-induced MAP3K5-JNK activation, while it inhibits CHUK-NF-kappa-B signaling. Acts a negative regulator in the IFN-gamma-mediated JAK-STAT signaling cascade by inhibiting smooth muscle cell (VSMCs) proliferation and intimal expansion, and thus, prevents graft arteriosclerosis (GA). Acts as a GTPase-activating protein (GAP) for the ADP ribosylation factor 6 (ARF6) and Ras. Promotes hydrolysis of the ARF6-bound GTP and thus, negatively regulates phosphatidylinositol 4,5-bisphosphate (PIP2)-dependent TLR4-TIRAP-MyD88 and NF-kappa-B signaling pathways in endothelial cells in response to lipopolysaccharides (LPS). Binds specifically to phosphatidylinositol 4-phosphate (PtdIns4P) and phosphatidylinositol 3-phosphate (PtdIns3P). In response to vascular endothelial growth factor (VEGFA), acts as a negative regulator of the VEGFR2-PI3K-mediated angiogenic signaling pathway by inhibiting endothelial cell migration and tube formation. In the developing brain, promotes both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex in a glial-dependent locomotion process. Probable downstream effector of the Reelin signaling pathway; promotes Purkinje cell (PC) dendrites development and formation of cerebellar synapses. Functions also as a tumor suppressor protein in prostate cancer progression; prevents cell proliferation and epithelial-to-mesenchymal transition (EMT) through activation of the glycogen synthase kinase-3 beta (GSK3B)-induced beta-catenin and inhibition of PI3K-AKT and Ras-MAPK survival downstream signaling cascades, respectively.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227506