

Product datasheet for **RC234824**

DAB2 (NM_001244871) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DAB2 (NM_001244871) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DAB2 |
| Synonyms: | DOC-2; DOC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC234824 representing NM_001244871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCACCAACAGGCCGCACAAAAGCACCCCT
 CAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTTTAGCAAGGTTCAAAGGCGATGG
 TGTAAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATAAAAATGAGCCAA
 GACTCTATGATGAACTAAAGGGAATGGCGGCAGCTGGTCGGTCTCAGGGACAACACAAACAAAGGATCT
 GGGTCAACATTTCCCTTTCTGGGATAAAAATAATTGATGAGAAAAGTGGGTAATAGAGCATGAACATCC
 AGTAAATAAGATTTCTTTCATTGCCCGTGTGACAGACAACCGGCCATTTGGTTACGTGTGTGGAGGA
 GAAGGCCAGCATCAGTTTTTTGCCATAAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAG
 ACCTTTTTCAAGTTATCTATAATGTAAGAAAAAGGAAGAAGAAAAAGATAGAGGAAGCCAGCAA
 AGCAGTTGAGAATGGGAGTGAGGCCCTAATGATTCTAGATGACCAAACTAACAACTGAAATCGGAAAGC
 AAAGATATCCTGTTAGTGGATCTAAACTCTGAAATCGACACCAATCAGAATTCCTTAAGAGAAAAATCCAT
 TCTTAACAAACGGCATCACCTCCTGTTCTCTTCCGACCAACGCCTCAGGCATCCTTTCTGCTGAAAA
 TGCCTTTTCTGCCAATCTCAACTCTTTCCACCCCTAATCCTGATCCTTTCCGTGACGATCCTTTCA
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 GGACCATGGAACACAGCATCTTTGGTCTTCAATCAGTCCCTTCAATGGCTCCGGGAGCCATGATGGGTG
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 CTTCTGGGACTTTGAGTGCCTTTGCCAGTTATTTCAACAGCAAGGTTGGCATTCTCAGGAGAATGCAGA
 CCATGATGACTTTGATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAGCCAGCTCCAGACAA
 GTTTCCCTGCCAGTTACCAATCTACTGACAATGCATTGAGAACCCTTTCTTTAAAGATTCTTTGGTT
 CATCACAAGCCTCTGTGGCTTCTTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTTGAAAATCC
 TTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234824 representing NM_001244871
Red=Cloning site Green=Tags(s)

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MSNEVETSATNGQPDQQAAPKAPSKKEKKKGPEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQ
DSMMKLGMAAAGRSQGQHKQRIWVNISLSGIKIDEKTGVIEHEHPVNKISFIARDVTDNRAFQYVCGG
EGQHQFFAIKTGQQAEPVVLDKDLFQVIYNVKKKEEKKKIEEASKAVENGSEALMILDDQTNLKSSES
KDILLVDLNSEIDTNQNSLRENPFLLTNGITSCSLPRPTPQASFLPENAFSANLNFFPTPNPDPFRDDPFT
QPDQSTPSSFDSLKSPDQKKENSSSSSTPLSNGPLNGDVDFYFGQQFDQISNRTGKQEAQAGPWPFFSSSQT
QPAVRTQNGVSEREQNGFSVKSSPNPFVGSPPKGLSIQNGVKQDLESSVQSSPHDSIAIIPPPQSTKPGR
GRRTAKSSANDLLASDIFAPPVSEPSGQASPTGQPTALQPNPLDLFKTSAPAPVGPLVGLGGVTVLTPQA
GPWNTASLVFNQSPMAPGAMGGQPSGFSQPVIIFGTSPAVSGWNQPSPF AASTPPVPVWGPSASVAP
NAWSTTSPLGNPFQSNIFPAPAVSTQPPSMHSSLLVTPPQPPRAGPPKDISSDAFTALDPLGDKEIKDV
KEMFKDFQLRQPPAVPARKGEQTS SGTLSAFASYFNKVGIPQENADHDDFDANQLLNKINEPPKAPRQ
VSLPVTKSTDNAFENPFKDSFGSSQASVASSQPVSSEMYRDPFGNPF A
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001244871

ORF Size: 2247 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:

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_001244871.1](#), [NP_001231800.1](#)

RefSeq Size: 4554 bp

RefSeq ORF: 2250 bp

Locus ID: 1601

UniProt ID: [P98082](#)

Cytogenetics: 5p13.1

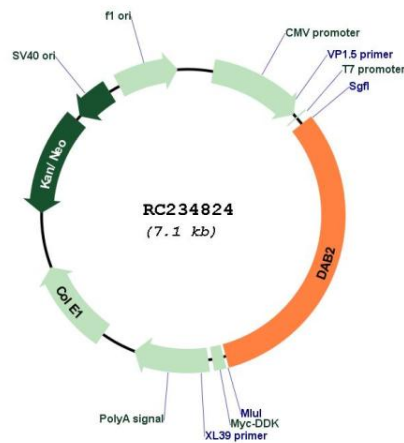
Protein Families: Druggable Genome

Protein Pathways: Endocytosis

MW: 80.7 kDa

Gene Summary: This gene encodes a mitogen-responsive phosphoprotein. It is expressed in normal ovarian epithelial cells, but is down-regulated or absent from ovarian carcinoma cell lines, suggesting its role as a tumor suppressor. This protein binds to the SH3 domains of GRB2, an adaptor protein that couples tyrosine kinase receptors to SOS (a guanine nucleotide exchange factor for Ras), via its C-terminal proline-rich sequences, and may thus modulate growth factor/Ras pathways by competing with SOS for binding to GRB2. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC234824