

## Product datasheet for **RG234824**

### **DAB2 (NM\_001244871) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DAB2 (NM_001244871) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAB2
Synonyms:	DOC-2; DOC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234824 representing NM\_001244871  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCACCAACAGGCCGCACAAAAGCACCCCT  
 CAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTTTAGCAAGGTTCAAAGGCGATGG  
 TGTAAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATAAAATGAGCCAA  
 GACTCTATGATGAACTAAAGGGAATGGCGGCAGCTGGTCGGTCTCAGGGACAACACAAACAAAGGATCT  
 GGGTCAACATTTCCCTTTCTGGGATAAAAAATAATTGATGAGAAAAGTGGGTAATAGAGCATGAACATCC  
 AGTAAATAAGATTTCTTTATTGCCCGTGTGACAGACAACCGGCCATTTGGTTACGTGTGTGGAGGA  
 GAAGGCCAGCATCAGTTTTTTGCCATAAAAACCGGCCAACAGGCTGAACCATTAGTTGTTGATCTTAAAG  
 ACCTTTTTCAAGTTATCTATAATGTAAGAAAAAGGAAGAAGAAAAAGATAGAGGAAGCCAGCAA  
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 TGCCTTTTCTGCCAATCTCAACTCTTTCCACCCCTAATCCTGATCCTTTCCGTGACGATCCTTTCA  
 CAGCCAGACCAATCGACACCTTCTCGTTTGATTCTCTCAAACTCCAGATCAGAAGAAAGAGAATTCGA  
 GTAGCTCGTCTACTCCGCTGAGTAAATGGGCCCTGAATGGTGATGTTGACTACTTTGGTCAGCAATTTGA  
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 CAGCCAGCAGTGAGAACTCAAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCAAATCCTCCC  
 CGAACCCTTTTGTGGGAAGCCCTCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTTGGAAAG  
 CTCTGTCCAGTCCACACATGACTCCATAGCCATTATCCACCTCCACAAAGTACCAAAACAGGAAGA  
 GGCAGAAGGACTGCTAAGTCTTCAGCCAATGACTTGCTTGCATCAGACATCTTTGCTCCTCCCGTCTCAG  
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 GTCACCTTCAGGTTTTAGTCAGCCCGTCATTTTTGGTACAAGTCCAGCTGTTTCAGGTTGAACCAGCC  
 TTCACCTTTGCAGCCTCAACTCCCTCCAGTGCCTGTTGTCTGGGGCCCTTCTGCATCTGTGGCACCC  
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 CCACTCAGCCCCATCCATGCACTCCTCTCCTGGTCACTCCTCCTCAGCCACCTCCAGAGCTGGCCC  
 TCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGACCCACTTGGGGATAAAGAGATCAAGGATGTG  
 AAAGAAATGTTTAAAGATTTCCAAGTGCAGCCACCTGCTGTGCCCGCGCGGAAGGGAGAGCAGACTT  
 CTTCTGGGACTTTGAGTGCCTTTGCCAGTTATTCAACAGCAAGGTTGGCATTCTCAGGAGAATGCAGA  
 CCATGATGACTTTGATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAGCCAGCTCCAGACAA  
 GTTTCCCTGCCAGTTACCAATCTACTGACAATGCATTGAGAACCCTTTCTTTAAAGATTCTTTGGTT  
 CATCACAAGCCTCTGTGGCTTCTTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTTGAAATCC  
 TTTTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234824 representing NM\_001244871  
Red=Cloning site Green=Tags(s)

```
MSNEVETSATNGQPDQQAAPKAPSKKEKKKGPEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQ
DSMMMLKGMAAAGRSQGQHKQRIWVNIISLGGIKIIDEKTVIEHEHPVNKISFIARDVTDNRAFQYVCGG
EGQHQFFAIKTGQQAEPVVLDLDFQVIYNVKKKEEKKKIEEASKAVENGSEALMILDDQTNLKSSES
KDILLVDLNSEIDTNQNSLRENPFLLTNGITSCSLPRPTPQASFLPENAFSANLNFFPTPNPDPFRDDPFT
QPDQSTPSSFDLKSQDKKSSSSSTPLSNGLNGDVDFGQQFDQISNRTGKQEAQAGPWPFSSTQ
QPAVRTQNGVSEREQNGFSVKSSPNPFVSGPPKGLSIQNGVKQDLESSVQSSPHDSIAIIPPPQSTKPGR
GRRTAKSSANDLLASDIFAPPVSEPSGQASPTGQPTALQPNPLDLFKTSAPAPVGPLVGLGGVTVTLQPA
GPWNTASLVFNQSPMAPGAMGGQPSGFSQPVIIFGTSPAVSGWNQPSFPAASTPPPVPVWGPSASVAP
NAWSTTSPLGNPFQSNIFPAPAVSTQPPSMHSSLLVTPPQPPRAGPPKDISSDAFTALDPLGDKEIKDV
KEMFKDFQLRQPPAVPARKGEQTSSTGLSAFASYFNSKVGIPQENADHDDFDANQLLNKINEPPKPAPRQ
VSLPVTKSTDNAFENPFKDFGSSQASVASSQPVSSSEMYRDPFGNPF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

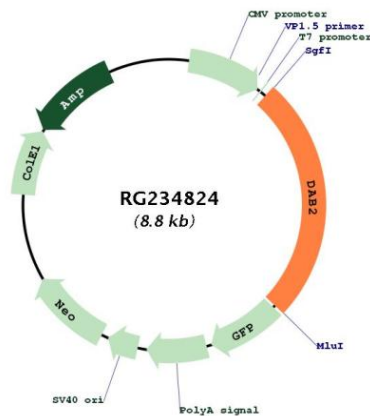
**Cytogenetics:** 5p13.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Endocytosis

**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 RG234824