

## Product datasheet for **RG222536**

### DAB2IP (NM\_138709) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DAB2IP (NM_138709) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAB2IP
Synonyms:	AF9Q34; AIP-1; AIP1; DIP1/2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222536 representing NM_138709 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGAGGCTGAAGGAGTCTCGCTCCCACGAGTCCCTGCTCAGCCCCAGCAGTGCAGTGGAGGCGCTGG  
ACCTCAGCATGGAGGAAGAGGTGGTCATCAAGCCCGTGCACAGCAGCATCCTTGGCCAGGACTACTGCTT  
CGAGGTGACGACGTCATCAGGAAGCAAGTGCTTTTCTGCCGGTCTGCAGCTGAGCGGGATAAGTGGATG  
GAGAACCTCCGGCGAGCGGTGCATCCCAACAAGGACAACAGCCGGCGTGTGGAGCACATCCTGAAGCTGT  
GGGTGATCGAGGCCAAGGACCTGCCAGCCAAGAAGAAGTACCTGTGCGAGCTGTGCCTGGACGATGTGCT  
CTATGCCCGCACCACGGCAAGCTCAAGACGGACAATGTTTTCTGGGGCAGCACTTCGAGTTCCACAAC  
TTGCCGCCTCTGCGCACGGTCACTGTCCACCTGTACCGGGAGACCACAAGAAGAAGAAGGAGCGCA  
ACAGTTACCTGGGCTGGTGGAGCTACCTGCTGCCTCGGTGGCCGGGCGGAGTTCGTGGAGAAGTGGTA  
CCCGGTGGTGACGCCAACCACCAAGGGCGGCAAGGGCCCTGGACCCATGATCCGCATCAAGGCGCGCTAC  
CAAACCATCACCATCCTGCCATGGAGATGTACAAAGAGTTTCGCTGAGCAGCATCACCAACCACTACCTGG  
GGCTGTGTGCAGCCCTCGAGCCCATCCTCAGTGCCAAGACCAAGGAGGAGATGGCATCTGCCCTGGTGCA  
CATCCTGCAGAGCACGGCAAGGTGAAGGACTTCTGCAGACCTGATGATGTGAGAGGTGGACCGCTGC  
GGGGACAACGAGCACCTCATCTTCGGGAGAACAACACTGGCCACCAAGGCCATTGAGGAGTACCTCAAG  
TAGTGGGCCAGAAGTACCTGCAGGACGCCCTAGGTGAGTTTCATCAAGCGCTGTATGAGTCAGATGAGAA  
CTGCGAAGTGATCCCAGCAAGTCTCGCCGCTGACCTCCCAGAGCACCAGGGCAACCTCAAGATGTGC  
TGCGAGCTGGCCTTCTGCAAGATCATCAACTCCTACTGTGCTTCCCACGGGAGTTGAAAGAGGTGTTTG  
CCTCGTGGAGGCAGGAGTGCAGCAGTCGCGGCCGCCGGACATCAGTGAGCGGCTCATCAGCGCCTCCCT  
CTTCTGCGCTTCTCTGCCAGCCATCATGTCGCCCTCACTCTTCAACCTGCTGCAGGAGTACCCTGAT  
GACCGCACTGCCCGACCCTCACCTCATGCCAAGGTCAACCAGAACCTGGCCAACTTTGCCAAATTTG  
GCAGCAAGGAGGAATACATGTCTTTCATGAACCAGTTCCTAGAGCATGAGTGGACCAACATGCAGCGCTT  
CCTGCTGGAGATCTCAACCCCGAGACCCTCTCAATACAGCCGGCTTCGAGGGTACATCGACCTGGG



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CGCGAGCTCTCCAGCCTGCACTCACTGCTCTGGGAGGCCGTGAGCCAGCTGGAGCAGAGCATAGTATCCA  
 AACTGGGACCCCTGCCTCGGATCCTGAGGGACGTCCACACAGCACTGAGCACCCAGGTAGCGGGCAGCT  
 CCCAGGGACCAATGACCTGGCCTCCACACCGGGCTCTGGCAGCAGCAGCATCTCAGCTGGGCTGCAGAA  
 ATGGTGATTGAGAACGATCTTTCCGGTCTGATAGATTTACCCGGTTACCGTCTCCAACCCCGAAAAACA  
 AGGACTTGTTTTTGTACAAGTCTCCGGGTCCAGCCCTCACCTGCCCGCAGCTCGAGTTACTCGGA  
 AGCCAACGAGCCTGATCTTCAGATGGCCAACGGTGGCAAGAGCCTCTCCATGGTGGACCTCCAGGACGCC  
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 CAGCTCAGCTGGTGGCCGGTGGCCGGCCGGCAACCCAGTGAACCTGGCAGGGCTGGCCACGGTGGC  
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 ACCAGCCTCCGCCCCACCCCGCGCCACCTCCTGCCCCCGCGCCGACGCCCCCAACCTGCTGAG  
 CACCCTGCAGTACCAAGACCCTCAAGCGGAACCTGGCGTGGCCTCACCTGATTGGGTGGCCCCAGT  
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 AGCAGGGCCCTTACCTGTGAGCCCAATGCCCTGGACCCACAGCCGCTTGGCTCTTGACCATGAACGC  
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 CTCAGCCAAGCAGAAAAGGACCTGGCGGTGCTGCAGGACAAGCTGCGAATCTCCACCAAGAAGCTGGAGG  
 AGTATGAGACCCTGTTCAAGTCCAGGAGGAGACGACGAGAAGCTGGTGTGAGTACCAGGCACGGCT  
 GGAGGAGGGCAGGAGCGGCTGCCGCGGACGAGGAGGACAAGGACATCCAGATGAAGGGCATCATCAGC  
 AGGTTGATGTCCGTGGAGGAAGAACTGAAGAAGGACCACGAGAGATGCAAGCGGCTGTGGACTCCAAAC  
 AGAAGATCATTGATGCCAGGAGAAGCGCATTGCCTCGTTGGATGCCGCCAATGCCCGCCTCATGAGTGC  
 CCTGACCCAGCTGAAAGAGAGGTACAGCATGCAAGCCCGTAACGGCATCTCCCCACCAACCCCAACAAA  
 TTGCAGATTACTGAGAACGGCGAGTTCAGAAACAGCAGCAATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG222536 representing NM\_138709

Red=Cloning site Green=Tags(s)

MPRLKESRSHESLLSPSSAVEALDLSMEEVVIKPVHSSILGQDYCFEVTSSSGSKFCSCRSAAERDKWM  
 ENLRRVHPNKDNRVHILKLVIEAKDLPAKKKYLCELCLDDVL YARTTGKLTNDNVFGEHFEFHN  
 LPPLRVTVHLYRETDKVKKERNKSYLGLVSLPAASVAGRQFVEKWYPVVTNPKGGKGPMPMIRIKARY  
 QTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEMASALVHILQSTGKVKDFLTDLMMSEVDR  
 GDNEHLIFRENTLATAKIEEYLKLVGQKYLQDALGEFIKALYESDENCEVDPSKCSAADLPEHQNLKMC  
 CELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPD  
 DRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQRFLLEISNPETLSNTAGFEGYIDL  
 RELSSLHSLWEAVSQLEQSIYSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSISAGLQK  
 MVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQMANGGKSLSMVDLQDA  
 RTLDGEAGSPAGPDVLPDQAAAAQLVAGWPARATPVNLAGLATVRRAGQTPPTPGTSEGAPGRPQLLA  
 PLSFQNPVYQMAAGLPLSPRGLGDSGSEGHSSLSHNSSEELAAAALGFSFSTAAEELARRPGELARRQM  
 SLTEKGGQPTVPRQNSAGPQRRIDQPPPPPPPPAPRGRTPPNLLSTLQYPRPSSGTLASAPDWVGPS  
 TRLRQSSSSKGDSPKPRAVHKQGPSVSPNALDRTAAWLLTMNAQLLEDEGLGDPDPPHRDLRSKDE  
 LSQAEKDLAVLQDKLRISTKKLEEYETLFKQEEETQKLVLEYQARLEEGEERLRQQEDKDIQMKGIIS  
 RLMSVEEELKDHAEQAAVDSKQKIIDAQEKRIASLDAANARLMSALTLKERYSMQARNGISPTNPTK  
 LQITENGEFRNSSNC

TRTRPLE - GFP Tag - V

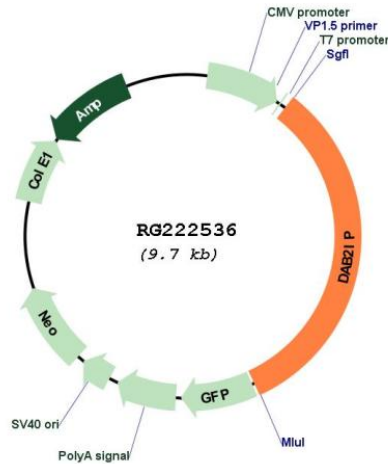
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_138709

ORF Size: 3195 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_138709.2</a></u>
<b>RefSeq Size:</b>	3500 bp
<b>RefSeq ORF:</b>	3198 bp
<b>Locus ID:</b>	153090
<b>UniProt ID:</b>	<u><a href="#">Q5VWQ8</a></u>
<b>Cytogenetics:</b>	9q33.2
<b>Gene Summary:</b>	DAB2IP is a Ras (MIM 190020) GTPase-activating protein (GAP) that acts as a tumor suppressor. The DAB2IP gene is inactivated by methylation in prostate and breast cancers (Yano et al., 2005 [PubMed 15386433]).[supplied by OMIM, May 2010]