

## Product datasheet for **RG214664**

### **DAB1 (NM\_021080) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DAB1 (NM_021080) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAB1
Synonyms:	SCA37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214664 representing NM\_021080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAACTGAGACAGAAGTCAAGTAGCTGTGAAAACAGCGCCAAGAAAGACTCCAGAAAGAAAGGTC  
 AGGATCGCAGTGAAGCCACTTTGATAAAGAGGTTAAAGGTGAAGGGTCCGGTACAAAGCCAAATTGAT  
 CGGGATTGATGAAGTTCCGCAGCTCGGGGAGACAAGTTATGTCAAGATCCATGATGAAACTCAAGGGC  
 GTTGTGCTGGCGCTCGTTCAAAGGAGAACACAAACAGAAAATCTTTTTAACCATCTCCTTTGGAGGAA  
 TCAAAAATCTTTGATGAGAAGACAGGGGCCCTTCAGCATCATGCTGTTTCAATAATCTTACATTGC  
 AAAGGACATTACAGATCACCGGGCTTTGGATATGTTTGTGGGAAGGAAGGAATCACAGATTTGTGGCC  
 AAAAAACAGCCAGCGGCTGAACCTGTTATTCTGGACTTGAGAGATCTTTCAACTCATTTATGAAT  
 TGAAGCAAAGAGAAGAATTAGAAAAAAGGCACAAAAGGATAAGCAGTGTGAACAAGCTGTGTACCAGAC  
 AATATTGAAGAGGATGTTGAAGATCCTGTGTACCAGTACATTGTGTTTGAAGCTGGACACGAGCCAATC  
 CGTGATCCGAAACGGAAGAAAACATTTATCAGGTTCCACCAGCCAAAAGAAAGGAGGTTTATGATG  
 TGCCAAAAGTCAACCTGTAAGTGTGTGACCCAAATTAGAACTTTTTGGGGACATGTCCACACCCCTGA  
 TATAACCTCTCCCCACTCCTGCAACTCCAGGTGATGCCTTTATCCCATCTTCACTCAGACCCCTCCA  
 GCGAGTGCAGATGTGTTAGTTCTGTACCTTCGGCACTGCTGCTGTACCTCAGGTTACGTTGCAATGG  
 GCGCTGTCTCCCGTCTTCTGGGGTCAAGCCCTCGTCCACAGCAGATGGTATGGGTGCCAGCC  
 ACCAGTCGCTCAGGTGATGCCGGGGCTCAGCCATCGCATGGGGCCAGCCGGTCTCTTTCCTGCCACT  
 CAGCAGCCCTGGCAACTGTGGCCGGCAGTTTCCGCCAGCCGCTTTCATGCCACACAACTGTTATGC  
 CTTTGGCAGTGGCATGTTCCAAGTCCCCTCACCCCTTGCACCGTCCAGGCAGGATGATGCCAC  
 CAGGTCAAGTCCACAGACCGACAAGCCAGGCAGAAAATGGGCAAGAAACGTTTAAAGATTTCCAGATG  
 GCCCAGCTCCGCCGTCCTCCCGCAAACCCGACCAGCCCTCCCTCACCTGTACCTCAGAGGCCCTTCT  
 CCAGTTACTTCAACAAAGTCGGGGTGGCACAGGATACAGACGACTGTGATGACTTTGACATCTCCAGTT  
 GAATTTGACCCCTGTGACTTCTACCACACCATCGACCAACTCACCTCCAACCCAGCCCTAGACAGAGC  
 TCTCCATCCAATCATCTGCATCCATGCCAGTGTCTACCACAGATGACATCTTTGAAGAGGGCTTTG  
 AAAGTCCAGCAAAGCGAAGAGCAAGAAGCTCCTGATGGATCACAGGCCTCATCCAACAGTGTCCATT  
 TGGTGAGCCAGTGGGGAGCCAGTGGTATAATAAGTCCACAGCCGGTAGC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG214664 representing NM\_021080  
 Red=Cloning site Green=Tags(s)

MSTETELQVAVKTSAKKDSRKKQDRSEATLIKRFKGEVRYKAKLIGIDEVSAARGDKLCQDSMMKLGK  
 VVAGARSKGEHKQKIFLTISFSGIKIFDEKTGALQHHHAVHEISYIAKDITDHRAFGYVCGKEGNHRFVA  
 IKTAQAAEPVILDLRDLFQLIYELKQRELEKKAQKDKQCEQAVYQTILEDVEDPVYQYIVFEAGHEPI  
 RDPETEENIYQVPTSQKKEGVYDVPKSPVSAVTQLELFGDMSTPPDITSPPTPATPGDAFIPSSSQTLP  
 ASADVSSVPFGTAAVPSGYVAMGAVLPSFWGQQLVQQMVMGAQPPVAQVMPGAQPIAWGQPLFPAT  
 QQPWPTVAGQFPFAAFMPTQTMPLPAAMFQGPLTPLATVPGTSDSTRSSPQTDKPRQKMGKETFKDFQM  
 AQPPPVPSPKPDQPSLTCTSEAFSSYFNKVGVAQDTRDCCDFDISQLNLTPTVSTTTPSTNSPPTPAPRQS  
 SPSKSSASHASDPTTDDIFEFGFESPSKSEEQEPDGSQASSNSDPFGEPSPGEPDGNISPDQAGS

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_021080

**ORF Size:** 1665 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\\_021080.5](#)

**RefSeq Size:** 2580 bp

**RefSeq ORF:** 1668 bp

**Locus ID:** 1600

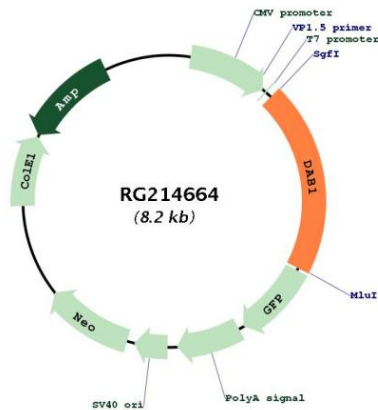
**UniProt ID:** [O75553](#)

**Cytogenetics:** 1p32.2

**Domains:** PID

**Gene Summary:** The laminar organization of multiple neuronal types in the cerebral cortex is required for normal cognitive function. In mice, the disabled-1 gene plays a central role in brain development, directing the migration of cortical neurons past previously formed neurons to reach their proper layer. This gene is similar to disabled-1, and the protein encoded by this gene is thought to be a signal transducer that interacts with protein kinase pathways to regulate neuronal positioning in the developing brain. [provided by RefSeq, Jan 2017]

**Product images:**



Circular map for RG214664