

## Product datasheet for **MG209635**

### **Dnaaf1 (NM\_026648) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnaaf1 (NM_026648) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnaaf1
Synonyms:	4930457P18Rik; Lrrc50; m4Bei
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209635 representing NM\_026648  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACCCGAAGTCTCTGAGCCCGCGGTGGACAGCGTGGCGGAGCCAGTCTGGAGGAGTCCGCAGGCG  
 ATCACGGCGACGCGGGCCAGGGATCCGTAAGAAGAAAATTAGTGAGACCAAGGAAACATGTGCGGGTCC  
 TTGCACAACATCCTGCCAAGTCAGCAGCAACCAAGTGGCGACAACGGTCCAGAGGGCTTCTGCACCCAC  
 TCGAGAGATGACAGAGAGGATCGGGGCCCAGGATGACGAAACAGTTCCTTCAAAGCTCTGCAAGCAGC  
 ACAAGCTGTACGTACCCCCGCCCTGAACGACACCCTGTATTTGCACTTTAAGGGCTTTGACCGCATTGA  
 GAACCTGGAGGAGTACACGGGCTGCGCTGCCTCTGGCTGGAGTGAATGGCATCCAGAGGATCGAGAAT  
 CTGCAGGCCCAGAGCGAACTGCGCTGCCTTCTCTGCAAGTGAACCTGTTGCACAAGATCGAGAACCTGG  
 AGCCCCCAGAAAGCTGGACGCCCTCAACCTGAGCAACAACATCAAGACCATTGAGAACCTCTCCTG  
 CCTCCCTGCTCTGAACACTGCAAATGGCCACAACCGCTGGAGACGGTGGCTGACATTGAGCACCTC  
 AGGGAGTGTCTGCGACTCTGTGTCTCGACCTCTCCACAATGCGCTGAGTGACCCTGAGATCCTGAGCG  
 TGCTAGAGAGCATGCCCTGTCTGCGTGTCTGAACCTCATGGGAAACCCAGTGACCAAACACATCCCTAA  
 CTACCGCAGGACGGTCACTGTCCGTCTGAAGCACTTGACTTATCTGGATGACAGGCCAGTTTTCCCAAG  
 GACAGGGCGTGTGAGAGGCATGGGCCCGAGGTGGGTATGCCGCCGAGAAGGAAGAGCGTCGCCAGTGGG  
 AGAGCAGGGAACAACAAGAAGATAACAGACAGCCTGGAAGCCTTGCCATGATCAAGCGTCGGGCTGAGGA  
 GCGGAAGAAGGCAAGAGATAGAGGGGAGACACCCTGCCAGACAGCGAAGGGAGTATCCCCACGACCCG  
 GAGGCTGAGGAAAAGCAACCCATGGGGGAAATCCAGAAGAAGTGGAGTGTGTTGTGGAGGAGAGCTTTG  
 AAGCCAAAAGATGAACTGTTTCCAGAGACGCCAGGAGGAGAAAAGGAGCTGCATGTGGTTGTGGTAATGG  
 GGCAGTGGAGAATCCAGACCTGTCTGGGAGCCTGGCTCACAACCAGACACCTGTGGTGGTACCCCGGAA  
 GAGTCTACATCTCCAGTGGCAGCTACTGATGGGCCAGAAGTGAAGATATAGAGGCCGTTGCCGTGGAGA  
 TCAAGGAGAGGCTTTTCATTGATGACCTTCTGACTTGAAGATGCTGAGGGTACAGATGTGTCTGTGGA  
 AGACCAGATAAAGGAGACAGACATCCCAGAAATCCAGGCCATTTCCAGCTTGAAGTACAGACAGTACCCG  
 GAGCTGGACGAGCTGTCCCTCTCCACGTCTGAGGCCACTCCACAGGCGCCACAGGTGCCCTCTCACACA  
 TATTTGCCATCTCAAGGGCCCCCACCAGCCAGCCAGGTGCCTTTCACAGACATATGTAAGCCAATAGC  
 AACACGGACTTAGAAAGCCAAGGTCAAGACTGCGGTGCAGCGGCTCACGCCCCCTCATCCAGGAGCTC  
 AATGATGAGCCGGCAGAGGAAGCAGCAAACAGCCACTGCCGCCCAAACCTGTGCGAGTGACCCTGCAC  
 TTGCCACCCCTAGTGAAGATGGAGACAGCGACAGCCAGCTGCCTGCAGCCACTCTGCTAGGAGATGGAGC  
 GGAGGATGAAGCAGAGTCTCGGTGCACCCGAAGGAGCCAGCACCCGGGTAGGCCCTAGAAGATATTGAA  
 TTTGGCTTGGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209635 representing NM\_026648  
 Red=Cloning site Green=Tags(s)

MHPEVSEPPVDSVAEPSLEESAGDHGDAGPGIRKEEISETKETCAGPCTTSCPSQQPPSGDNGSEGFCTH  
 SRDDREDRGRPMTKQFLQKLCQKHLVYTPALNDLTLHLFKGFDRIENLEEYTLRCLWLCENGIQRLEN  
 LQAQSELRLFLQVNLHKKIENLEPLQKLDALNLSNNYIKTIENLSCLPVLNLTQMAHNRLETVADIEHL  
 RECLRCLVLDLSHNALSPEILSVLESMPCLRVNLNMGNPVTKHIPNYRRTVTVRLKHLTYLDDRPVFPK  
 DRACAEAWARGGYAAEKEERRQWESREHKKITDSLEALAMIKRRAEERKKARDRGETPLPDSEGS IPTSP  
 EAEEKQPMGEIQKMELVFEESFEAKDELFPETPGGEKELHVVVNGAVENPDLSGSLAHNQTPVVVTPPE  
 ESTSPVAATDGARTEDIEAVAVEIKERLFIIDLPDLEAEGTDVSVEDQIKETDIPRIQATISSLSDSDP  
 ELDELSLSTSEATPTGATGALSHIFAISKGPSTAATVPFTDICKPIATTDLESQGDGAAAASRPLIQEL  
 NDEPAEEAANQLPPQTCASDPALAHPSGSDSDSQLPAATLLGDGAEDEAESSVHPKEPSTRVGLDIE  
 FGLD

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_026648

ORF Size: 1902 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\\_026648.4](#), [NP\\_080924.1](#)

RefSeq Size: 2821 bp

RefSeq ORF: 1905 bp

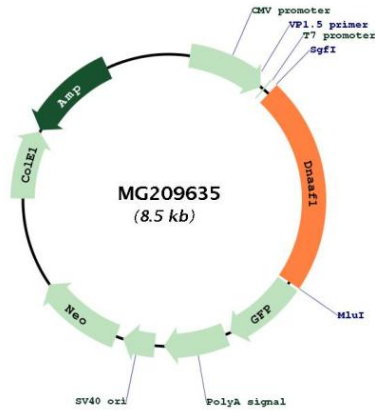
Locus ID: 68270

UniProt ID: [Q9D2H9](#)

**Cytogenetics:** 8 E1

**Gene Summary:** Cilium-specific protein required for the stability of the ciliary architecture. Plays a role in cytoplasmic preassembly of dynein arms (By similarity). Involved in regulation of microtubule-based cilia and actin-based brush border microvilli (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209635