

Product datasheet for **MG224847**

Deaf1 (NM_016874) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Deaf1 (NM_016874) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Deaf1
Synonyms:	AU042387; C230009B13Rik; NUDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224847 representing NM_016874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGACTCGGACTCGGCGGCAAAACAGCTGGGCCTGGCCGAGGCGGCAGCTGTGGCGGCCGCTGCCGCGGTGGCGGCGCGCCGCCGCGCCGAGCGGAAAGCGAGGCGGAGGAGCCGGTGTAAAGCAGAGACGAGGACTCGGAGGAGGACGCGAGCTCCGAGGCGGAGCGCGAGACGCGCGGGTCAACCGCTGTGGCGGTGATGGCGGCCGAATCTGGGCACATGGATATGGGTACCGAGGCTCTGCCAGCCCCGATGAGGCCGCCGCCGCCGCCGCCCTTCGAGAAAGTGACACAGTGACTGTGGCCAACGTGGGGTCTCTGCAGATAACGTCTTCACAACATCAGTGGCAAACGCAGCATCGATATCAGGACATGTCCTGTCTGGTAGGACAGCCCTGCAGATCGGTGACAGCCTGAACACTGAAAAAGCCACACTAATAGTTGTACACACAGATGGGAGCATTGTGGAGACCACTGGGCTGAAGGGCCAGCAGCACCTCTCACTCCAGGTCCCAAGTCTCTCTACCCCACTGGCACCTGGCCAGGAGAAAGGTGGTACCAAGTACAACCTGGGACCCTTCGGTGTATGACAGCGAGTTGCCTGTGCGCTGTGCGAACATCAGTGGCAGCTCTACAAGAGTAGGCTCGGCTCAGGTGGCCGGGGCCGGTGTATCAAGCAGGGAGAAAACCTGGTACAGCCCACTGAGTTTGAAGCTATGGCAGGAAGAGCCAGCAGCAAGGACTGGAAGAGAAGCATCCGCTATGCTGGCAGACCCCTGCAGTGCCTCATTCAAGGATGGTATTTGAACCCTCACGCTGCCTCCTGTACCTGTGCCGCTGTGTGTGATGACATGACTCTGAGTGGCCCTGTGAGGCTCTTCGTCCTTATAAAAGGCGCAAGAAAGAGATGAGCTGCCCAACTCCAGTGAAGAAGGATCCCCCAAGAACATCACCCCTGCTTCTTGCCACGGCGGCCACACCTTCACTGTGACACCCTCAGGACAGATCACTACCTCTGGAGCACTGACCTTTGACAGAGCATCCACTGTAGAGGCCACTGCTGTCTCTGAGAGCCAGCCCAAGGTGATGTCTTTGCGAGAGCCACAGTGCAAGAGGCAGGTGTGCAGCCTCCCTGCAGGTTGGCCACCCTGAACCCCACTACCTGGCTATCAGGACAGCTGCCAGATTGCCCGTTTCCAGAAGCTGCATTGCCAACATCACACCCCAAAATTGTCTGACATCGCTGCCCGCATTGGCCGTGCCACCCTCCACCCCAACCAAGCTGTCTCTCCACCGTGGTCA GTGGGCTGGAGATGTGAGAACATCGGAGCTGGCTGTACCTGGAAGAGATGGTCAACTCCCTACTCAACACAGCTCAGCAGTGAAGACGCTGTTTGAACAAGCAAGCAGGCGAGCTCTTGAGGGAAGCTGCTGTGACCAGGCGGAGAATGCAGGTGATACAGAGAGGAAAGAGCAGTCATGTGTCAACTGCGGCCGGGAGGCCATGAGTGAGTGTACCGGCTGCCACAAGTTAACTACTGCTCTACGTTCTGCCAGCGCAAGGACTGGAAGACCA TCAGCATGTGTGTGCCAGTCAGCGTCTGTCACTGTCCAGGCTGATGACGTCCATGTTGAAGAAAGTGTG ATAGAAAAAGTTGCTGTT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224847 representing NM_016874
 Red=Cloning site Green=Tags(s)

MEDSDSAKQLGLAEAAVAAAAVAAAAAAAESEAEPPVLSRDEDSEEDADSEAEERTRRVTA VAVMA AESGHMDMGTEALPSPDEAAAAAAFAEVTTVTVANVGSSADNVFTTSVANAASISGHVLSGR TALQIGD SLNTEKATLIVVHTDGSIVETTLKGPAAPLTPGPQSPPTPLAPGQEKGGTKYNWDPSVYDSEL PVRCRN ISGTLKYSRLGSGGRGRCIKQGENWYSPTFEAMAGRASSKDWKRSIRYAGRPLQLIQD GILNPHAASC TCAACDDMTLSGPVRLFVPYKRRKKENELPTTPVKKDSPKNITLLPATAATFTVTPSGQITTS GALTF DRASTVEATAVISESPAQGDVFAGATVQEAGVQPPCRVGHPEPHYPGYQDSCQIAPFPEALPT SHPKIV LTSLPALAVPPSTPTKAVSPTTVSGLEMSHRSWLYLEEMVNSLLNTAQQLKTLFEQAKQASSCREAAVT QARMQVDTERKEQSCVNCREAMSECTGCHKVNYCSTFCQRKDWKDHQHVCGQSASVTVQADDVHVEESV IEKVAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016874

ORF Size: 1698 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016874.3](#), [NP_058570.1](#)

RefSeq Size: 2192 bp

RefSeq ORF: 1701 bp

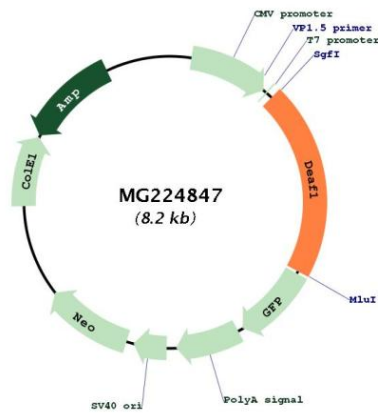
Locus ID: 54006

UniProt ID: [Q9Z1T5](#)

Cytogenetics: 7 F5

Gene Summary: Transcription factor that binds to sequence with multiple copies of 5'-TTC[CG]G-3' present in its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE) 5'-AGGGTTCACCGAAAGTTCA-3'. Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction (By similarity). Regulates epithelial cell proliferation and side-branching in the mammary gland. Required for neural tube closure and skeletal patterning. Controls the expression of peripheral tissue antigens in pancreatic lymph nodes. Isoform 1 displays greater transcriptional activity than isoform 2. Isoform 2 may inhibit transcriptional activity of isoform 1 by interacting with it and retaining it in the cytoplasm. Transcriptional activator of EIF4G3 (By similarity). May also involved in behavior (PubMed:24726472). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224847