

## Product datasheet for **MC227764**

### Deaf1 (NM\_001282073) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Deaf1 (NM_001282073) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Deaf1
Synonyms:	AU042387; C230009B13Rik; NUDR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC227764 representing NM\_001282073  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGACTTGCAGCTTTTTCGAAAGGGAGAAAGAAGTGACCACAGTGACTGTGGCAACGTGGGGTCTT  
 CTGCAGATAACGTCTTCAACATCAGTGGCAAACGCAGCATCGATATCAGGACATGTCCTGTCTGGTAG  
 GACAGCCCTGCAGATCGGTGACAGCCTGAACACTGAAAAAGCCACACTAATAGTTGTACACACAGATGGG  
 AGCATTGTGGAGACCACTGGGCTGAAGGGCCAGCAGCACCTTCACTCCAGGTCCCCAGTCTCCTCCTA  
 CCCCAGTGGCACCTGGCCAGGAGAAAGGTGGTACCAAGTACAACCTGGGACCCCTTCGGTGTATGACAGCGA  
 GTTGCCTGTGCGCTGTGGAACATCAGTGGCAGCTCTACAAGAGTAGGCTCGGCTCAGGTGGCCGGGGC  
 CGGTGTATCAAGCAGGGAGAAAAGTGTACAGCCAACTGAGTTTGAAGCTATGGCAGGAAGAGCCAGCA  
 GCAAGGACTGGAAGAGAAGCATCCGCTATGCTGGCAGACCCTGCAGTGCCTCATTGAGGATGGTATTTT  
 GAACCCTCAGCTGCCTCCTGTACTGTGCCGCTGTTGTGATGACATGACTCTGAGTGGCCCTGTCAGG  
 CTCTTCGTCCTTATAAAAGGCGCAAGAAAGAGAATGAGCTGCCACAACCTCCAGTGAAGAAGGATTCCC  
 CCAAGAACATCACCTGCTTCTGCCACGGCGGCCACCACCTTCACTGTGACACCCTCAGGACAGATCAC  
 TACCTCTGGAGCACTGACCTTTGACAGAGCATCCACTGTAGAGGCCACTGCTGTCATCTCTGAGAGCCCA  
 GCCCAAGGTGATGCTTTGACAGGAGCCACAGTGAAGAGGCAGGTGTGCAGCCTCCCTGCAGGGTTGGCC  
 ACCCTGAACCCCACTACCTGGCTATCAGGACAGCTGCCAGATTGCCCGTTTCCAGAAGCTGCATTGCC  
 AACATCACACCCCAAAATGTCTGACATCGCTGCCCGCATTGGCCGTGCCACCGTCCACCCCAACAAA  
 GCTGTCTCTCCACCGTGGTCACTCAACACAGCTCAGCAGCTGAAGACGCTGTTTGAACAAGCCAAGCAGGCGAGTC  
 TTGCAGGGAAAGCTGCTGTGACCCAGGCGAGAATGCAGGTTGATACAGAGAGGAAAGAGGACTGGAAGAC  
 CATCAGCATGTGTGGCCAGTCAAGCTGTCTACTGTCCAGGCTGATGACGTCCATGTTGAAGAAAGTG  
 TGATAGAAAAAGTTGCTGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001282073

**Insert Size:** 1353 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001282073.1](#), [NP\\_001269002.1](#)

**RefSeq Size:** 2032 bp

**RefSeq ORF:** 1353 bp

**Locus ID:** 54006

**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]

**Transcript Variant:** This variant (3) represents use of an alternate promoter, differs in the 5' UTR, and has multiple differences in the coding region, compared to variant 1. The resulting protein (isoform 3) has a distinct N-terminus and is shorter than isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.