

## Product datasheet for **RC216583**

### Deformed Epidermal Autoregulatory Factor 1 (DEAF1) (NM\_021008) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Deformed Epidermal Autoregulatory Factor 1 (DEAF1) (NM_021008) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Deformed Epidermal Autoregulatory Factor 1
Synonyms:	MRD24; NEDHEL5; NUDR; SPN; VSVS; ZMYND5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216583 representing NM\_021008  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGACTCGGACTCGGCGGCAAAGCAGCTGGGCTGGCTGAGGCGGCGGCGGTGGCGGCCGCGGCCG  
 CTGTGGCGGCGGCGGCCGCGGCCGCGCAGGAGCGAGGCGGAGGAGCCGGTGTGAGCAGGGACGAGGA  
 CTCGGAGGAGGACGCAGACTCGGAGGCGGAGCGGAGACGCCGCGGGTCACGGCAGTGGCGGTGATGGCG  
 GCGGAGCCCGGGCACATGGACATGGGCGCCGAGGCCCTGCCCGGCCCGACGAGGCCGCCGCTGCCGACG  
 CCTTCGACAGAGGTGACCACAGTGACAGTGGCCAACGTGGGGGCTGCTGCAGACAAATGTTCCACCACGTC  
 TGTGGCGAACCGGGCATCCATCTCAGGACATGTTCTGTCTGGTAGGACGGCCCTCAGATCGGGGACAGC  
 CTGAACACCGAAAAAGCGACACTGATTGTCGTCCACACAGATGGGAGCATCGTGGAGACCACCGGGCTGA  
 AAGGCCCGGCGAGTCCCCTCACCCAGGTCCTCAGTCTCCTCAAACCCCTCTGGTCCCAGGCAAGAAAA  
 AGGTGGAATAAATACTGGGACCCTTCTGTGTACGACAGTGAAGTGGCCGTCAGGTCAGGTCAGGTCAGG  
 AGCGGCACCTCTGTACAAGAACAGGCTCGGCTCAGGCGGCCGGGACGGTGCATCAAGCAGGGGGAGA  
 GGTACAGTCCCACCGAGTTTGGGCCATGGCAGGAAGAGCCAGCAGTAAGGACTGAAAAAGAACATTTCG  
 CTACGCGGGCCGACCCCTTGCAGTGCCTCATCCAGGATGGGATCTTAAACCCCTCACGCTGCCTCTTGCACC  
 TGTGCTGCCTGTGCGACGACATGACCTTAAGTGGCCAGTCAAGGCTTTTGTGCCTTACAAAAGGCGCA  
 AGAAGGAGAATGAACTGCCACAACCTCCCGTGAAGAAGGACTCCCCAAGAACATCACATTGCTTCCAGC  
 CACCGCGGCTACCACCTTACCCTGACCCCTCGGACAGATCACGACCTCGGGGCGACTGACCTTTGAC  
 CGACGCTCCACGGTAGAGGCCACTGCTGCATATCAGAGAGTCCGGCCCGAGGCGAGCTTTCGACGGGG  
 CCACAGTCCAAGAGGCCAGCGTGCAGCCCCATGCAGGGCCAGCCACCTGAGCCCTACTACCCCGGCTA  
 TCAGGACAGTGCAGATCGCACCGTTTCCAGAAGCTGCGTTGCCAACGTACATCCCAAAATAGTGTG  
 ACATCCCTGCCTGCGCTGGCGGTCCCACCCCGACTCCCACAAAGCGGCACCTCCCGCGTTGGTCAATG  
 GGCTGGAGCTGTGAGAGCCGCGGAGCTGGCTGTACCTAGAAGAGATGGTCAACTCCTTGTCAACACAGC  
 GCAGCAGCTGAAGACGCTGTTTGGCAAGCAAGCATGCCAGCACCTACCGAGAAGCTGCCACAAACCAG  
 GCCAAGATCCACGCTGACGCAGAGCGGAAGGAGCAGTCTGCGTTAACTGCGGCCGGGAGGCTATGAGCG  
 AGTGCACCGGCTGCCACAAGGTCAACTACTGCTCCACCTTCTGCCAACGCAAGGACTGGAAGGATCACCA  
 GCACATATGCGGCCAGTCAGCAGCTGTACCCTCAGGCAGACGAAGTCCACGTGGCTGAAAGCGTGATG  
 GAGAAGGTGACCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC216583 representing NM\_021008  
 Red=Cloning site Green=Tags(s)

MEDSDSAKQLGLAEAAVAAAAVAAAAAAGGEAEEPVLSRDEDSEEDADSEAERETPRVTAVAVMA  
 AEPGHMDMGAEALPGPDEAAAAAFAEVTTVTVANVGAADNVFTTSVANAASISGHVLSGRALQIGDS  
 LNTEKATLIVVHTDGSIVETTGLKGAAPLTPGPQSPPTPLAPGQEKGGTKYNWDPVSYDSELPVRCRNI  
 SGTLYKNRLGSGGRGRCIKQGENWYSPTFEFAMAGRASSKDWKRSIRYAGRPLQLIQDGLLNPHAASCT  
 CAACDDMTLSGPVRLFVPYKRRKKENELPTTPVKKDSPKNITLLPATAATFTVTPSGQITTSALTFD  
 RASTVEATAVISESPAQGDVAFAGATVQEASVQPPCRASHPEPHYPGYQDSCQIAPFPEAALPTSHPKIVL  
 TSLPALAVPPPPTKAAPPALVNGLELSEPRSWLYLEEMVNSLLNTAQQKTLFEQAKHASTYREAAATNQ  
 AKIHADAERKEQSCVNCREAMSECTGCHKVNYCSTFCQRKDWKDHQICGQSAAVTVQADEVHVAESVM  
 EKVTV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8078\\_e04.zip](https://cdn.origene.com/chromatograms/mk8078_e04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_021008

**ORF Size:** 1695 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\\_021008.4](#)

**RefSeq Size:** 2737 bp

**RefSeq ORF:** 1698 bp

**Locus ID:** 10522

**UniProt ID:** [O75398](#)

**Cytogenetics:** 11p15.5

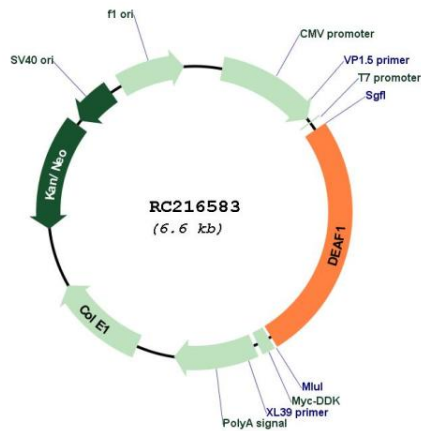
**Domains:** SAND, zf-MYND

**Protein Families:** Secreted Protein, Transcription Factors, Transmembrane

**MW:** 59.1 kDa

**Gene Summary:** This gene encodes a zinc finger domain-containing protein that functions as a regulator of transcription. The encoded proteins binds to its own promoter as well as to that of several target genes. Activity of this protein is important in the regulation of embryonic development. Mutations in this gene have been found in individuals with autosomal dominant cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

**Product images:**



Circular map for RC216583