

## Product datasheet for **RG216583**

### 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:	TurboGFP
Symbol:	Deformed Epidermal Autoregulatory Factor 1
Synonyms:	MRD24; NEDHEL5; NUDR; SPN; VSVS; ZMYND5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216583 representing NM\_021008  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGGACTCGGACTCGGCGGCAAGCAGCTGGGCTGGCTGAGCGGGCGGCGGTGGCGGCCGCGCCG  
 CTGTGGCGGGCGGCGCCGCGGCCGCGCAGGAGCGAGGCGGAGGAGCCGGTGTGAGCAGGACGAGGA  
 CTCGGAGGAGGACGCAGACTCGGAGGCGGAGCGGAGACGCCGCGGGTCACGGCAGTGGCGGTGATGGCG  
 GCGGAGCCCGGGCACATGGACATGGGCGCCGAGGCCCTGCCGCGCCCGACGAGGCCGCCGCTGCCGAC  
 CCTTCGACAGAGGTGACCACAGTGACAGTGGCCAACGTGGGGGCTGCTGCAGACAAATGTCTTACCACGTC  
 TGTGGCGAACCGGCATCCATCTCAGGACATGTTCTGTCTGGTAGGACGGCCCTCAGATCGGGACAGC  
 CTGAACACCGAAAAGCGACACTGATTGTCGTCCACACAGATGGGAGCATCGTGGAGACCACCGGGCTGA  
 AAGGCCCGGCAGTCCCCTACCCAGGTCCTCAGTCTCCTCAAACCCCTCTGGTCCCAGGCAAGAAAA  
 AGGTGGAATAAATACTGGGACCTTCTGTGTACGACAGTGAAGTCCCGTACGGTCCCGGAACATC  
 AGCGGCACCTGTACAAGAACAGGCTCGGCTCAGGCGGCCGGGACGGTGCATCAAGCAGGGGGAGA  
 AACTGGTACAGTCCCACCGAGTTTGGGCCATGGCAGGAAGAGCCAGCAGTAAGGACTGAAAAAGAACATT  
 CGCTACGCGGGCCGACCCCTTGCAGTGCCTCATCCAGGATGGGATCTTAAACCCCTCACGCTGCCTCTTGCACC  
 TGTGCTGCCTGTGCGACGACATGACCTTAAGTGGCCAGTCAAGGCTTTTGTGCCTTACAAAAGGCGCA  
 AGAAGGAGAATGAACTGCCACAACCTCCCGTGAAGAAGGACTCCCCAAGAACATCACATTGCTTCCAGC  
 CACCGCGGCTACCACCTTACCGTGACCCCTCGGACAGATCACGACCTCGGGGCACTGACCTTTGAC  
 CGAGCGTCCACGGTAGAGGCCACTGCTGCATATCAGAGAGTCCGGCCAGGGCGACGCTTTCGACGGGG  
 CCACAGTCCAAGAGGCCAGCGTGCAGCCCCATGCAGGGCCAGCCACCTGAGCCCTACTACCCCGGCTA  
 TCAGGACAGCTGCCAGATCGCACCGTTTCCAGAAGCTGCGTTGCCAACGTACATCCCAAAATAGTGTG  
 ACATCCCTGCCTGCGCTGGCGGTCCCACCCCGACTCCCACAAAGCGGCACCTCCCGCGTTGGTCAATG  
 GGCTGGAGCTGTGAGCGCGGAGCTGGCTGTACCTAGAAGAGATGGTCAACTCCTTGTCAACACAGC  
 GCAGCAGCTGAAGACGCTGTTTGAAGCAAGCAAGCATGCCAGCACCTACCGAGAAGCTGCCACAAACCAG  
 GCCAAGATCCACGCTGACGCAGAGCGGAAGGAGCAGTCTGCGTTAACTGCGGCCGGGAGGCTATGAGCG  
 AGTGCACCGGCTGCCACAAGTCAACTACTGCTCCACCTTCTGCCAACGCAAGGACTGGAAGGATCACCA  
 GCACATATGCGGCCAGTCAAGCAGCTGTACCGTCCAGGCAGACGAAGTCCACGTGGCTGAAAGCGTGATG  
 GAGAAGGTGACCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216583 representing NM\_021008  
 Red=Cloning site Green=Tags(s)

MEDSDSAKQLGLAEAAVAAAAVAAAAAAGGEAEEPVL SRDEDSEEDADSEAERETPRVTAVAVMA  
 AEPGHMDMGAEALPGPDEAAAAAFAEVTTVTVANVGAADNVFTTSVANAASISGHVLSGRTALQIGDS  
 LNTEKATLIVVHTDGSIVETTGLKGPAAPLTPGPQSPPTPLAPGQEKGGTKYNWDPSPVYDSELPVRCRNI  
 SGTLYKNRLGSGGRGRCIKQGENWYSPTFEAMAGRASSKDWKRSIRYAGRPLQCLIQDILNPHAASCT  
 CAACDDMTLSGPVRLFVPYKRRKKNELPTTPVKKDSPKNITLLPATAATFTVTPSGQITTSALTFD  
 RASTVEATAVISESPAQGDVFAGATVQEASVQPPCRASHPEPHYPGYQDSCQIAPFPEAALPTSHPKIVL  
 TSLPALAVPPPTPTKAAPPALVNGLELSEPRSWLYLEEMVNSLLNTAQQLKTLFEQAKHASTYREAAATNQ  
 AKIHADAERKEQSCVNCGREAMSECTGCHKVNYCSTFCQRKDWKDHQHCIGQSAAVTVQADEVHVAESVM  
 EKVTV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**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](#)

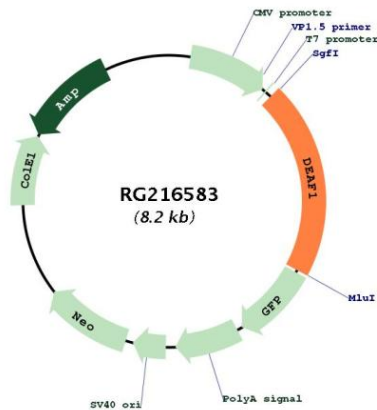
**Cytogenetics:** 11p15.5

**Domains:** SAND, zf-MYND

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

**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 RG216583