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Product datasheet for RG225485

Neuro D4 (DPF1) (NM_001135156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuro D4 (DPF1) (NM_001135156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPF1
Synonyms:	BAF45b; NEUD4; neuro-d4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG225485 representing NM_001135156
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACGGTCATCCCTGGCCCCCTGAGCCTAGGCGAGGACTTCTACCGCGAGGCCATCGAGCACTGCC
GCAGTTACAACGCGCGCCTGTGCGCCGAGCGCAGCCTGCGACTGCCCTTCCTCGACTCGCAGACCGGCGT
GGCCCAGAACAACTGCTACATCTGGATGGAGAAGACCCACCGCGGGCCGGGTTTGGCCCCGGGACAGATT
TACACGTACCCCGCCCGCTGTTGGAGGAAGAAACGGAGACTCAACATCCTGGAGGACCCCAGACTCAGGC
CCTGCGAGTACAAGATCGACTGTGAAGCACCCCTGAAGAAGGAGGGTGGCCTCCCGGAAGGGCCGGTCCT
CGAGGCTCTACTGTGTGCAGAGACGGGGGAGAAGAAGATTGAGCTGAAGGAGGAGGAGACCATTATGGAC
TGTCAGAAACAGCAGTTGCTGGAGTTTCCGCATGACCTCGAGGTGGAAGACTTGGAGGATGACATTCCCA
GGAGGAAGAACAGGGCCAAAGGAAAGGCATATGGCATCGGGGGTCTCCGGAAACGCCAGGACACCGCTTC
CCTGGAGGACCGAGACAAGCCGTATGTCTGTGATATCTGTGGGAAACGGTATAAGAACCGGCCGGGGCTC
AGCTACCACTACACCCACACCCACCTGGCCGAGGAGGAGGGGGAGGAGAACGCCGAACGCCACGCCCTGC
CCTTCCACCGGAAAAACAACCATAAACAGTTTTACAAAGAATTGGCCTGGGTCCCTGAGGCACAAAGGAA
ACACACAGCCAAGAAGGCGCCCGACGGCACTGTCATCCCCAACGGCTACTGTGACTTCTGCCTGGGGGGC
TCCAAGAAGACGGGGGTGTCCCGAGGACCTCATCTCCTGTGCGGACTGTGGGCGATCAGGACACCCCTCGT
GTTTACAATTCACGGTGAACATGACGGCAGCCGTGCGGACCTACCGCTGGCAGTGCATCGAGTGCAAATC
CTGCAGCCTGTGCGGAACCTCCGAGAACGACGACCAGCTGCTGTTTTGTGATGACTGCGATCGGGGTTAC
CACATGTACTGCCTGAGTCCCCCCATGGCGGAGCCCCCGGAAGGGAGCTGGAGCTGTCACCTCTGTCTCC
GGCACCTGAAGGAAAAGGCTTCTGCTTACATCACCCTCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

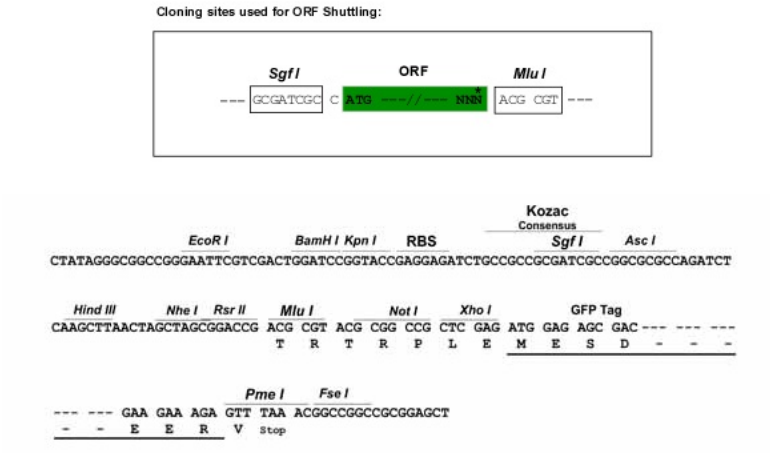
>RG225485 representing NM_001135156
Red=Cloning site Green=Tags(s)

MATVIPGPLSLGEDFYREAIEHCRSYNARLCAERSLRLPFLDSQTGVAQNNCYIWMEKTHRGPGLAPGQI
YTYPARCWRKKRRLNILEDPRLRPCEYKIDCEAPLKKEGGLPEGPVLEALLCAETGEKKIELKEEETIMD
CQKQQLLEFPHDLEVEDLEDDIPRRKNRAKGKAYGIGGLRKRQDTASLEDRDKPYVCDICGKRYKNRPGL
SYHYTHTHLAEEEGEENAERHALPFHRKNNHKQFYKELAWVPEAQRKHTAKKAPDGTVIPNGYCDFCLGG
SKKTGCPEDLISCADCGRSGHPSCLQFTVNMTAAVRTYRWQCIECKSCSLCGTSENDDQLLFCDDCDRGY
HMYCLSPPMAEPPEGSWSCHLCLRHLKEKASAYITLT

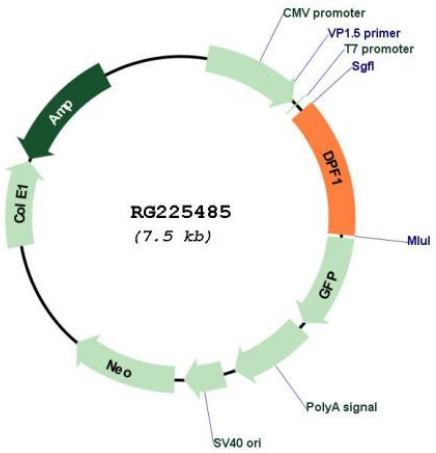
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135156

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ORF Size:	1164 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001135156.1, NP_001128628.1
RefSeq Size:	2362 bp
RefSeq ORF:	999 bp
Locus ID:	8193
UniProt ID:	Q92782
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Transcription Factors

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Gene Summary: May have an important role in developing neurons by participating in regulation of cell survival, possibly as a neurospecific transcription factor. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).[UniProtKB/Swiss-Prot Function]

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