

Product datasheet for MG206060

Dpf1 (NM_013874) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Dpf1 (NM_013874) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Dpf1

Synonyms: Neud4

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG206060 representing NM_013874

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGGCCACCGCCATTCAGAACCCGCTCAAGTCCCTTGGCGAGGACTTCTACCGGGAGGCCATCGAGCACT GTCGCAGCTACAACGCGCGCCTGTGTGCCGAGCGCAGCCTGCCCTGCCTTTCCTCGACTCGCAGACCGG AGTGGCCCAGAACAACTGCTACATCTGGATGGAGAAGACCCACCGCGGGCCTGGTTTGGCCCCGGGACAG ATCTACACTTACCCCGCCCGCTGTTGGAGGAAGAAACGGAGACTCAACATCCTGGAGGACCCCAGGCTCC GGCCCTGCGAGTACAAGATCGATTGTGAGGCACCTCTGAAGAAGGAGGGTGGCCTCCCGGAAGGGCCAGT CCTCGAGGCTCTGCTGTGTGCTGAGACTGGAGAAAAAGTGGAGCTGAAGGAGGAGGAGACCATCATG GACTGTCAGAAACAGCAGTTGCTGGAGTTTCCGCATGATCTCGAGGTAGAAGACTTGGAGGAAGACATTC CCAGGAGGAAGAACAGGGCAAGAGGAAAGGCATATGGCATTGGAGGTCTCCGCAAACGCCAGGACACCGC ATCCCTGGAGGACCGAGACAAGCCGTACGTCTGTGATATCTGTGGGAAGAGATATAAGAACCGGCCAGGA CTCAGCTACCATTACACCCACACCCACCTGGCTGAGGAGGAGGAGGAGGAGCACACTGAACGCCACGCCC TGCCTTTCCACCGGAAAAACAACCATAAACAGTTTTACAAAGAATTGGCCTGGGTCCCCGAGGCACAGAG GAAACACACAGCCAAGAAAGCACCAGATGGCACTGTCATCCCCAATGGCTACTGTGACTTTTGCCTGGGG GGCTCCAAGAAGACTGGGTGTCCCGAGGACCTCATCTCCTGTGCGGACTGTGGGCGATCAGGACATCCCT CGTGTTTACAGTTCACGGTGAACATGACCGCGGCTGTGCGGACCTACCGCTGGCAGTGCATTGAATGCAA GTCCTGCAGCCTGTGTGGCACCTCGGAGAATGACGACCAGCTGCTGTTCTGTGATGACTGCGATCGAGGT TACCACATGTACTGCCTGAGCCCTCCCATGGCGGAGCCCCCGGAAGGGAGCTGGAGCTGCCACCTCTGTC TCCGGCACTTGAAGGAAAAGGCCTCTGCTTACATCACCCTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206060 representing NM_013874

Red=Cloning site Green=Tags(s)

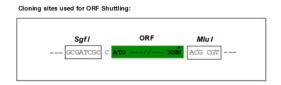
MATAIQNPLKSLGEDFYREAIEHCRSYNARLCAERSLRLPFLDSQTGVAQNNCYIWMEKTHRGPGLAPGQ IYTYPARCWRKKRRLNILEDPRLRPCEYKIDCEAPLKKEGGLPEGPVLEALLCAETGEKKVELKEEETIM DCQKQQLLEFPHDLEVEDLEEDIPRRKNRARGKAYGIGGLRKRQDTASLEDRDKPYVCDICGKRYKNRPG LSYHYTHTHLAEEEGEEHTERHALPFHRKNNHKQFYKELAWVPEAQRKHTAKKAPDGTVIPNGYCDFCLG GSKKTGCPEDLISCADCGRSGHPSCLQFTVNMTAAVRTYRWQCIECKSCSLCGTSENDDQLLFCDDCDRG YHMYCLSPPMAEPPEGSWSCHLCLRHLKEKASAYITLT

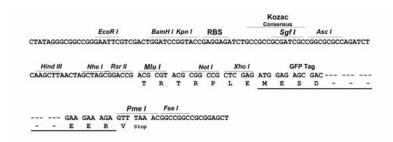
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_013874

ORF Size: 1164 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: <u>NM 013874.2</u>, <u>NP 038902.1</u>

RefSeq Size: 2278 bp
RefSeq ORF: 1167 bp
Locus ID: 29861
UniProt ID: Q9QX66
Cytogenetics: 7 B1

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

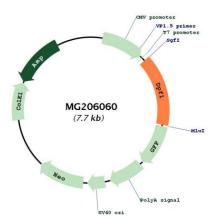
neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are

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.

[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MG206060