

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 Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG206060 representing NM_013874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCGCCATTGAGAACCCTCAAGTCCCTTGCGGAGGACTTCTACCGGGAGGCCATCGAGCACT
 GTCGCAGCTACAACGCGCGCCTGTGTGCCGAGCGCAGCCTGCGCCTGCCTTCTCGACTCGCAGACCGG
 AGTGGCCAGAACAACTGCTACATCTGGATGGAGAAGACCACCGCGGCCTGGTTTGGCCCGGGACAG
 ATCTACACTTACCCGCGCGCTGTTGGAGGAAGAAACGGAGACTCAACATCCTGGAGGACCCAGGCTCC
 GGCCCTGCGAGTACAAGATCGATTGTGAGGCACCTCTGAAGAAGGAGGGTGGCCTCCCGAAGGGCCAGT
 CCTCGAGGCTCTGCTGTGTGCTGAGACTGGAGAGAAGAAAGTGGAGCTGAAGGAGGAGGAGACCATCATG
 GACTGTCAGAAACAGCAGTTGCTGGAGTTTCCGCATGATCTCGAGGTAGAAGACTTGGAGGAAGACATTC
 CCAGGAGGAAGAACAGGGCAAGAGGAAAGGCATATGGCATTGGAGGTCTCCGCAAACGCCAGGACACCGC
 ATCCCTGGAGGACCGAGACAAGCCGTACGTCTGTGATATCTGTGGGAAGAGATAAAGAACCGGCCAGGA
 CTCAGCTACCATACCCACACCCACCTGGCTGAGGAGGAGGGGAGGAGCACACTGAACGCCACGCCC
 TGCCTTCCACCGGAAAAACAACATAAACAGTTTTACAAAGAATTGGCCTGGTCCCGAGGCACAGAG
 GAAACACACAGCCAAGAAAGCACCAGATGGCACTGTATCCCCAATGGCTACTGTGACTTTTGCCTGGGG
 GGCTCCAAGAAGACTGGGTGTCCCGAGGACCTCATCTCCTGTGCGGACTGTGGCCGATCAGGACATCCCT
 CGTGTTCACAGTTCACGGTGAACATGACCGCGGCTGTGCGGACCTACCGCTGGCAGTGCATTGAATGCAA
 GTCCTGCAGCCTGTGTGGCACCTCGGAGAATGACGACCAGCTGCTGTTCTGTGATGACTGCGATCGAGGT
 TACCACATGTAAGTGCCTGAGCCCTCCCATGGCGGAGCCCCGGAAGGGAGCTGGAGCTGCCACCTCTGTC
 TCCGGCACTTGAAGGAAAAGGCCTCTGCTTACATCACCTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206060 representing NM_013874
 Red=Cloning site Green=Tags(s)

MATAIQNPLKSLGEDFYREAIEHCRSYNARLCAERSLRLPFLDSQTGVAQNNCYIWMEKTHRGPGLAPGQ
 IYTYPARCWRKKRRLNILEDPRLRPCEYKIDCEAPLKKEGGLPEGPVLEALLCAETGEKKVELKEEETIM
 DCQKQQLLEFPHDLEVEDLEEDIPRRKNRARGKAYGIGGLRKRQDTASLEDRDKPYVCDICGKRYKNRPG
 LSYHYTHTHLAEEEGEEHTERHALPFHRKNNHKQFYKELAWVPEAQRKHTAKKAPDGTVIPNGYCDFCLG
 GSKKTGCPEDLISCADCGRSGHPSCQLQFTVNMTAAVRTYRWQCIECKSCSLCGTSENDDQLLFCDDCDRG
 YHMYCLSPMAEPPEGSWSCHLCLRHLKEKASAYITLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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: [NM_013874.2](#), [NP_038902.1](#)

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