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Product datasheet for MC218412

Dpf3 (BC048572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpf3 (BC048572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dpf3
Synonyms:	CERD4, cer-d4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC048572 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGCTGCTTGCCCAAGGGCCACAACAGGCCTGGGGCCTGGATGGAGAAGAGGCACCGCGGCCCAGGCC TCGCTCCGGGCCAGTTGTACACATACCCTGCCCGCTGCTGGCGCAAGAAGCGACGATTGCACCCACCAGA GGACCCAAAACTACGACTCCTGGAAATCAAACCCGAAGTAGAACTGCCCCTGAAGAAAGATGGATTTACC TCTGAGAGTACCACACTGGAAGCCTTGCTTCGCGGCGAGGGAGTAGAGAAGAAGGTGGATGCCAGAGAAG AGGAAAGCATCCAGGAGATACAGAGGGTTTTGGAAAATGATGAAAACGTAGAAGAAGGGAATGAAGAGGA GGATTTGGAAGAAGATGTTCCCAAGCGCAAGAACAGGACCAGAGGACGGGCTCGCGGCTCTGCAGGCGGA AGGAGGAGGCATGATGCCGCCTCTCAGGAAGACCACGACAAACCCTACGTCTGCGACATCTGTGGCAAGC GCTACAAGAACCGGCCAGGACTCAGCTACCACTACGCTCATACTCACCTGGCCAGCGAGGAGGGAGACGA AGCCCAAGACCAGGAGACCCGATCCCCACCCAACCACAGAAATGAGAACCACAGACCCCAGAAAGGACCA GACGGGACAGTCATTCCTAATAACTACTGTGACTTCTGCTTGGGGGGCTCCAACATGAACAAGAAGAGTG GGAGGCCTGAAGAGCTGGTGTCCTGTGCAGACTGTGGACGCTCTGCTCATTTGGGAGGAGAAGGCAGGAA GGAGAAGGAGGCAGCGGCCGCAGCACGTACCACGGAGGACTTATTCGGTTCCACGTCAGAAAGTGACACC TCAACTTTCTACGGCTTTGATGAGGACGATTTGGAAGAGCCTCGCTCCTGTCGAGGACGCCGCAGTGGCC GGGGTTCACCCACAGCAGATAAAAAGGGCAGCTGCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	BC048572

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Insert Size:	948 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC048572, AAH48572
RefSeq Size:	1123 bp
RefSeq ORF:	947 bp
Locus ID:	70127
Cytogenetics:	12 D1
Gene Summary:	Muscle-specific component of the BAF complex, a multiprotein complex involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Specifically binds acetylated lysines on histone 3 and 4 (H3K14ac, H3K9ac, H4K5ac, H4K8ac, H4K12ac, H4K16ac). In the complex, it acts as a tissue-specific anchor between histone acetylations and methylations and chromatin remodeling. It thereby probably plays an essential role in heart and skeletal muscle development (By similarity). 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]