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Product datasheet for MC223219

Ofd1 (NM_177429) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ofd1 (NM_177429) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ofd1
Synonyms:	Cxorf5; DXGgc7e; ORF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC223219 representing NM_177429
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGATGGCTCAGTCCAACATGCCCCACAAGTCTGATGTGTTGAGTCAAGATGAACTGCGCAAAAAGC
TATACCAGACGTTTAAGGATCGGGGTGTACTGGACACACTTCAGACCCAACTCCGAAACCAGCTAATTCA
TGAATTGATGCATCCTGTATTGAGTGGAGAAGTGAAGCCGCCATCCATTTCAGTGGAAGGGAGTGCCCTC
CTAATAGGGGCTTCTAACTCGCTGGTGGCAGACCACTTACAAAGATGTGGCTATGAATATTCACTCTCTG
TTTTCTTTCCAGAAAGTGGTTTGGCAAAAGAAAAGATATTTACTATGCAGGATCTACTACAACTCATTCG
GATTAACCCCTCATCCAGTCTCTATAAATCATTGATTTCAGGATTTGATAAAGAAAATAAAAAAGGTTTT
CTTATGAGTTTCTTAAAGGAGTTGGCAGAATATTATCAAGCTAAAGAGAGCTGTGATGCGGAAACTCAGA
CAAGCACCACATTTCCCAGCCAAGTGTCCCTAGCCGAGAAGTTTCAGCTTATTGACGCTCAATTTGCAGA
TGGTTTTCCTCACCGTTCCAAGCTAGAATCTTTAGAGACAAAGTTAAACGAGTATAAGAAAGAAGTACAA
CACCAGCTTCAGGTAGAAATGTGTCATAAGCTGAAGTATTTTAGAGAAGCTGAAATAACAAAAGTTAAGA
TGGAAGAGAGAAGAAAGTATGAAAAGGAATTGGCTGAGTTCCAGAATGAATTTGAAAGAACTTGTCAAGC
AAAAAATGAAGCCCTCATTTCTCAGGAGAAGAATTCTCTGGAAAGAATTAAAAAACACCGAGAGATGGAA
TCAAAAGAAATTTATGCTCAAAGACAGCTTCTACTAAATGATATAGCTTTGCTTAGAGGTAGAGAAGCAG
AGCTGAAGGAGCGAATCGAAACTTTTGAATTGACCCAGAAGCTCCAAGAAGAAAAAATTAAAAGTGAGGC
TGAGGCACTTGAGAGACGGGAACAGAATCTGAAGAATATTGAAGACACCTATGATCAGAAACTCAAAACT
GAACTGCTAAAGTACCAACTGGAGCTAAAGGATGACTACATCACTAGGACAAATAAACTCCTGGAAGAGG
AAAGGAAGAATAAAGAAAAAACTATTCATTTGCAAGAGGAGCTCACAGTTATTAATTCAAAAAAGGAAGA
ACTCAGTAAATCTGTTAAGCATATGAAAGAAGTTGAGCTGGAACTGGAGTCTGTGAAAGCTCAGTTTTTA
GCAATATCAAAACAAAACCACTTGCTGAATGAAAAGGTGAGAGAGATGAGTGATTACTCACAACTGAAAG
AAGAGAAAGTGGAGCTTCAGGCACAAAATAAACTACTTAAACTGCAACTGGAAGAGACTAGGAATGAAAA
CTTACGACTCCTAGACCGCATAACTCAGCCACCTCCTGAGCTTGTGATTTTTCAGAAGGAATTACAGAAA

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ACAGAAAAGGCTATGGAACTGGAGCACAAGGACTTTGAAACTCATAGGCAGGCTCTTGAGAAACAGCTGC
AGAGTGAAATTGAAAATTCTGCACAGCTAAGGACCCAGATAGCAGAATATGATGCTTCTGTCAAAAGGTT
AACTGTTCAGGTGGCTGAGTTAAAGTCACAACTAAAACAAACTCAGATAGCCCTAGAGAATGAAGTGTAC
CGAAATCCAAAACACTCTCTGATTCATTCCCTGAGTGGCCTCCTATTGAGCGGCAAGATGGCACCCCACA
GTGAAGATAAAAGTGGGGATTTCTTGAATGTACCCCTTGAACAGAACAAGGTTATAGCAGGTGCAGTTAT
GTCAAGGGTCCCACCTTATGTAAATACAGCAACAGAAGCTAGTTCCCCAGAGTCTGACTTTGAGTTTATA
GCCAGTAGTACTAAAGCCAAAGTAAGAGAGCTAGAGCAAGAGGCTGAACGCTTGGAAAAGGCATTCAGAA
CTTACTATCAAAGAGCTACTCAGAATCCTTCTACGAGCCCTCAGCCGGCAAAGAGTCCTCCATCTGTAAA
CTCGGTGGCAGCTCTCAGAAGCATAGCTTCCAGTTCCATGGACAGACCTGTTTCTGCAGAGGACAGAGTT
GTCTCGGAACAGCCTCTTGGGGACATGCTGAAGGAAGAAATGAGTGATATGTCCAAAGCATTCATGGGCA
GTGTGGTTTCACGGCCACGCAGGACCTCTTCCTCCACACGCCTCTCCTCTACACCCCATCCAAAATCGAG
AAGAAGTCTTGATAATGAAATGTATCTGGAAGGTCTCGGGAGATTACACATGACTTCCTCCAGCCCTCTT
CTTGACAGAGTTTCTGCATCACCTGCTGCTTCCCCTAGTCCTTGTCCTGAGAGAACAGCCCAGGCGTCAC
CTGTTCCATCTAGGCACAGCTTCTCTGGTCTTCCAGAGCAAAATGCCTGTTTATATCAGAGACAAACTGA
AACGCAAGATAAAAGTGAGCTTTCAAATGTGGACAAGCAATCTTTGAAAGATGAGAAATTTGAACCACCT
TTCAGATGGAACAAGACAGAACAGTTTGAAGCAGAAGGACTCCACCCTGCTGGTGACATGCCTGGAATAG
ATTTTGCTGTGGCTACTCAGTCTTCAAGACTCATTTCATACGACTACCCAAGTGCTGTTCAGAGCCAAAC
TGGAGAACAAGACGAACAGGAGCTATGGGAGCTTCACATGAAAGAACGCAGGCAGAGAGAAGAACAAAGG
CATAATGAACGGCAAGAAGCTTTAGAGAGGGAAAGAAGAGAGCTGGGAAAACTAGAGCAGGAGCGGAGGA
TGATTGAAGAGTCACTGAAGATGGAGATGGAAGAAGAATTAGAAAAGAGTGTTCAAGACCAGAAAGACAA
ATCAGCTCATTGTGAAAATACTTTAGAAAAATACATGAAAATTATCCAGCAGAGACAGGAAGAATCAAAT
GCAGATAAGAGCTCCAAAAAATCGGGCAAAGAATGCTCACTAGTGGACATGATGATGCCTAGTGACAAGG
ATGAAAGTTCTCCAGGATTTTCTCATGAAGAACCAGATGACATGTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177429

Insert Size: 3060 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_177429.3, NP_803178.2

RefSeq Size:	4453 bp
RefSeq ORF:	3060 bp
Locus ID:	237222
UniProt ID:	Q80Z25
Cytogenetics:	X 77.28 cM
Gene Summary:	Component of the centrioles controlling mother and daughter centrioles length. Recruits to the centriole IFT88 and centriole distal appendage-specific proteins including CEP164. Involved in the biogenesis of the cilium, a centriole-associated function. The cilium is a cell surface projection found in many vertebrate cells required to transduce signals important for development and tissue homeostasis. Plays an important role in development by regulating Wnt signaling and the specification of the left-right axis. Only OFD1 localized at the centriolar satellites is removed by autophagy, which is an important step in the ciliogenesis regulation. [UniProtKB/Swiss-Prot Function]