

Product datasheet for MR225128

Ofd1 (NM_177429) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ofd1 (NM_177429) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ofd1
Synonyms:	Cxorf5; DXGgc7e; ORF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225128 representing NM_177429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGGATGGCTCAGTCCAACATGCCCCACAAGTCTGATGTGTTGAGTCAAGATGAACTGCGCAAAAAGC
TATACCAGACGTTTAAGGATCGGGGTGTACTGGACACACTTCAGACCCAACCTCCGAAACCAGCTAATTCA
TGAATTGATGCATCCTGTATTGAGTGGAGAAGTGAAGCCGCCATCCATTCAGTGAAGGGAGTGCCCTC
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GATTAACCCCTCATCCAGTCTCTATAAATCATTGATTTTCAGGATTTGATAAAGAAAAATAAAAAAGTTTT
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CAAGCACCACATTTCCAGCCAAGTGTCCCTAGCCGAGAAGTTTCAGCTTATTGACGCTCAATTTGCAGA
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ACAGAAAAGGCTATGGAAGTGGAGCACAAAGGACTTTGAAACTCATAGGCAGGCTCTTGAGAAACAGCTGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225128 representing NM_177429
 Red=Cloning site Green=Tags(s)

MRMAQSNMPHKSDVLSQDEL RKKLYQTFKDRGVLDTLQTLRNQLIHELMPVLSGEVKKPPSISVEGSAL
 LIGASNSLVADHLQRCGYEYSLVFFPESGLAKEKIFTMQDLLQLIRINPSSSLYKSLISGFDKENKKG
 LMSFLKELAEYYQAKESDAETQTSTTFPSQVSLAEKFLIDAQFADGFPHRSKLESLETKLNEYKKEVQ
 HQLQVEMCHKLYFREAEITKVKMEERRKYEKELAEFQNEFERTCQAKNEALISQEKNSLERIKKHREME
 SKEIYAQRQLLLNDIALLRGREAELKERIETFELTQKLQEEKIKSEAEALERREQLNKNIEDTYDQKLT
 ELLKYQLELKDDYITRTNKLLEERKNKEKTIHLQEELTVINSKKEELSKSVKHMKEVELELESVKAQFL
 AISKQNHLLNEKVRMSDYSQLKEEKVELQAQNKLLKLQLEETRNENLRLLDRITQPPPELVIFQKELQK
 TEKAMELEHKDFETHRQALEKQLQSEIENSAQLRTQIAEYDASVKRLTVQVAELKSQLKQTQIALENEVY
 RNPKHSLIHSLSGLLLSGKMAPHSEDKSGDFLNVPLEQNKVIAGAVMSRVPPYVNTATEASSPESDFE
 ASSTKAKVRELEQEAERLEKAFRTYYQRATQNPSTSPQPAKSPPSVNSVAALRSIASSMDRVPVSAEDRV
 VSEQPLGDMLKEEMSDMSKAFMGSVVSRPRRTSSSTRLSSTPHPKSRRSLDNEMYLEGLGRLHMTSSSPL
 LDRVSASPAASPCPERTAQASPVPSRHSFSGLPEQNAQLYQRQTETQDKSEL SNVDKQSLKDEKFEPP
 FRWNKTEQFEAEGLHPAGDMPGIDFAVATQSSRLISYDYPQSAVQSQTGEQDEQELWELHMKERRQREEQR
 HNERQEALERERREL GKLEQERRMIEESLKMEEEELEKSVQDQKDKSAHCENTLEKYMKIIQQRQESN
 ADKSSKSGKECSLVDMMPSPDKDESSPGFSHEEPDDMW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9048_e12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_177429

ORF Size: 3057 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_177429.3](#), [NP_803178.2](#)

RefSeq Size: 4453 bp

RefSeq ORF: 3060 bp

Locus ID: 237222

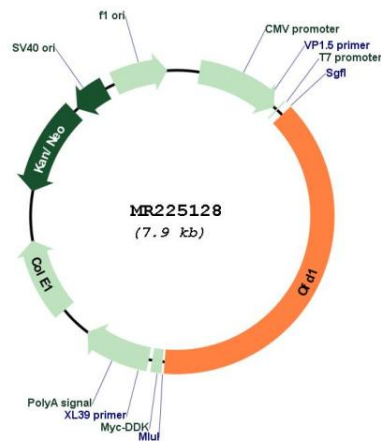
UniProt ID: [Q80Z25](#)

Cytogenetics: X 77.28 cM

MW: 118.1 kDa

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]

Product images:



Circular map for MR225128