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Product datasheet for RC220154

OFD1 (NM_003611) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OFD1 (NM_003611) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OFD1
Synonyms:	71-7A; CXorf5; JBTS10; RP23; SGBS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220154 representing NM_003611
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGATGGCGCAGTCCAACATGTTTACCGTGGCTGATGTGTTGAGTCAAGATGAACTGCGCAAAAAGCTAT
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AAGGCTATAGTGGTTGAGCATGAGGAGTTCGAAAGCTGCAGGCAAGCTCTGCACAAACAACTGCAAGACG
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Protein Sequence:

>RC220154 representing NM_003611
Red=Cloning site Green=Tags(s)

MMAQSNMFTVADVLSQDELRKKLYQTFKDRGILDTLKTQLRNQLIHELMHPVLSGELQPRSISVEGSSLL
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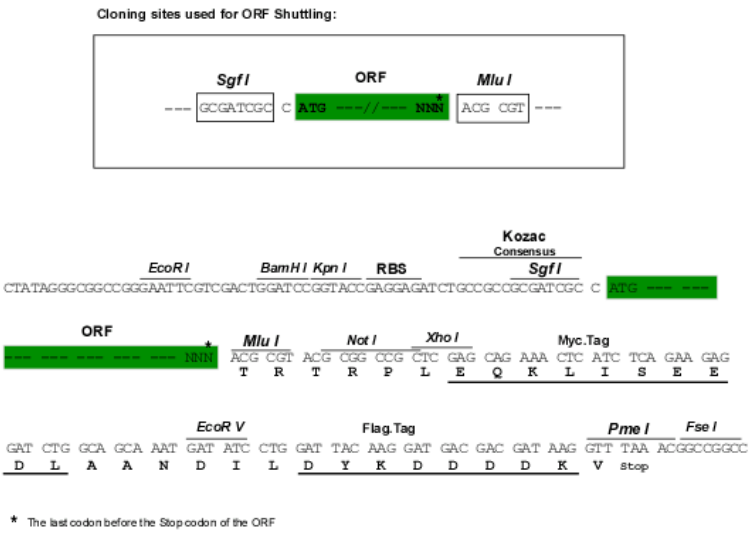
Chromatograms: https://cdn.origene.com/chromatograms/mk8020_e05.zip

Restriction Sites: SgfI-MluI

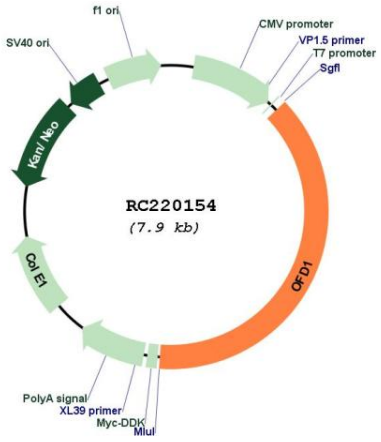
Cloning Scheme:



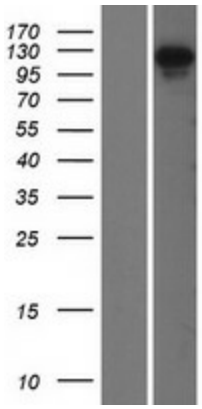
ACCN:	NM_003611
ORF Size:	3036 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003611.3
RefSeq Size:	3615 bp

RefSeq ORF:	3039 bp
Locus ID:	8481
UniProt ID:	O75665
Cytogenetics:	Xp22.2
Domains:	LisH
Protein Families:	Druggable Genome
MW:	116.5 kDa
Gene Summary:	This gene is located on the X chromosome and encodes a centrosomal protein. A knockout mouse model has been used to study the effect of mutations in this gene. The mouse gene is also located on the X chromosome, however, unlike the human gene it is not subject to X inactivation. Mutations in this gene are associated with oral-facial-digital syndrome type I and Simpson-Golabi-Behmel syndrome type 2. Many pseudogenes have been identified; a single pseudogene is found on chromosome 5 while as many as fifteen have been found on the Y chromosome. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RC220154



Western blot validation of overexpression lysate (Cat# [LY418551]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).