

Product datasheet for **SC315068**

OFD1 (NM_003611) Human Untagged Clone

Product data:

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



Fully Sequenced ORF:

>SC315068 representing NM_003611.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGCGCAGTCCAACATGTTTACCGTGGTGATGTGTTGAGTCAAGATGAAGTGCACAAAAAGCTA
TACCAGACGTTTAAGGATCGGGGTACTGGATACACTCAAGACACAACCTCGAAACCAGCTAATTCAT
GAGTTGATGCACCTGTATTGAGTGGAGAACTGCAGCCTCGGTCCATTTTCAGTAGAAGGGAGCTCCCTC
TTAATAGGCGCCTCTAACTCTTTAGTGGCAGATCACTTACAAGATGTGGCTATGAATATTCACCTTTCT
GTTTCTTTCCAGAAAGTGGTTTGGCAAAAGAAAGGATTTACTATGCAGGATCTATTACAACCTCATT
AAAATCAACCTACTTCCAGTCTCTACAAATCACTGGTTTCAGGATCTGATAAGAAAAATCAAAAAGGT
TTTCTTATGCATTTTTTAAAAAGAAATGGCAGAAATATCATCAAGCTAAAGAGAGTTGTAAATATGGAACT
CAGACAAGTTCGACATTTAACAGAGATTCTCTGGCTGAGAAGCTTCAGCTTATTGATGATCAGTTTGCA
GATGCTTACCCTCAGCGTATCAAGTTCGAATCTTTAGAAATAAGCTAAATGAGTATAAGAGAGAAATA
GAAGAGCAACTTCGGGCAGAAATGTGTCAAAGTTGAAGTTTTTAAAGATACCGAGATAGCAAAAATT
AAAATGGAAGCAAAAAAAGTATGAAAAGGAGTTAACCATGTTCCAGAATGATTTTGAAAAAGCTTGT
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AGCATAAAGTGAAGCACTTAGGAGACAGGAGCAGAAATATAAGAGTTTTGAGGAGACCTATGACCGAAAG
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GCTTCTGTAAGAGTTTAACTACTCAGGTTGCCGATTTAAATGCAAGTGAAGCAAACTCAGACAGCC
CTAGAGAATGAAGTGTACTGCAATCCAAGCAGTCTGTGATCGATCGTTCTGTCAATGGATTAATAAAT
GGCAATGTGGTGCCTTGAATGGTGAGATAAGTGGGGATTTCTTGAAACATCCTTTTAAACAGGAAAAC
GTTCTAGCAGTATGGTTGCATCAAGGATCACAAATTATCCAAGTGCATGGGTGGAGGGTAGTCCCTC
GATTCTGACCTTGAGTTTGTAGCCAATACTAAGGCAAGGGTCAAAGAGCTTCAGCAAGAGGCCGAACGC
TTGGAAAAGGCTTTCAGAAATACCATCGGAGAGTCAATAAAACTCTGCCAAAAGCCCACTAGCAGCA
AAGAGCCCAACATCTCTGCACTTGTGGAAGCCTTCAAAAACATTACTTCCAGTTCCCGGAAAGACAT
ATTTTTGGAGAGGACAGAGTTGTCTCTGAGCAGCCTCAAGTGGGCACACTTGAAGAAAGGAATGACGTC
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ACACCCCTTCCAAAAGCAAAAAGAGCCTCGAAAGTGAATGTATCTGGAAGGTCTGGGCAGATCACAC
ATTGCTTCCCCAGTCTTGTCTGACAGAAATGCCCTACCATCACCCTAGTCTAGGCACAGCCTC
TCCATCCCTCCTGTCTCAGCCCTCCGGAGCAGAAAGTGGGTCTTTATCGAAGACAACTGAAGTTC
GACAAAAGTGAATTTTCAGATGTGGACAAGCTAGCTTTTAAAGGATAATGAGGAGTTTGAATCATCTTT
GAATCTGCAGGGAACATGCCAAGGCAAGTTGGAATGGCGGGCTTTCTCCTGCCGGGGATATGTCTCAT
GTGGACGCTGCTGCAGTGTGTGCCCTCTCATATCAGCACCAAGTGTAGATCAGAAACAAATTGAA
GAACAAAAGGAAGAAAGAAAAAATACGGGAACAGCAAGTGAAGAAACGAAGGCAGAGAGAAAGAAAGG
CAGAGTAACCTACAAGAAGTTTGAAGAGGAACGAAGAGAACTAGAAAACTGTATCAGGAAGGAAG
ATGATTGAAGAATCACTGAAGATTAATAAAAAAGGAATTAGAAATGGAAAATGAATTAGAAATGAGT
AATCAAGAAATAAAGACAAATCTGCTCACAGTAAAAATCCTTTAGAGAAATACATGAAAAATCATCCAG
CAGGAGCAAGACAGGAGTCGGCAGATAAGAGCTCAAAAAAGATGGTCCAAGAAGGCTCCCTAGTGGAC
ACGCTGCAATCTAGTGACAAAGTCGAAAGTTTAAACAGGCTTTTCTCATGAAGAACTAGACGACTCTTGG
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_003611

Insert Size:	3039 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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:	<u>NM_003611.1</u>
RefSeq Size:	3654 bp
RefSeq ORF:	3039 bp
Locus ID:	8481
UniProt ID:	<u>O75665</u>
Cytogenetics:	Xp22.2
Domains:	LisH
Protein Families:	Druggable Genome
MW:	116.7 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]

Transcript Variant: This variant (1) encodes the longest isoform (1).