

Product datasheet for **RG220154**

OFD1 (NM_003611) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OFD1 (NM_003611) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OFD1
Synonyms:	71-7A; CXorf5; JBTS10; RP23; SGBS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220154 representing NM_003611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCGCAGTCCAACATGTTTACCCTGGCTGATGTGTTGAGTCAAGATGAACTGCGCAAAAAGCTAT
ACCAGACGTTTAAGGATCGGGGTAACTGGATACACTCAAGACACAACCTCGAAACCAGCTAATTCATGA
GTTGATGCACCCTGTATTGAGTGGAGAAGTGCAGCCTCGGTCCATTTTCAGTAGAAGGGAGCTCCCTCTTA
ATAGGCGCCTCTAACTCTTTAGTGGCAGATCACTTACAAAGATGTGGCTATGAATATTCATTTCTGTTT
TCTTTCCAGAAAGTGGTTTGGCAAAAGAAAAGGTATTTACTATGCAGGATCTATTACAACCTATTA
CAACCCTACTTCCAGTCTCTACAAATCACTGGTTTCAGGATCTGATAAAGAAAATCAAAAAGTTTTCTT
ATGCATTTTTTAAAGAATTGGCAGAATATCATCAAGTAAAGAGAGTTGTAATATGAAAACAGACAA
GTTTCGACATTTAACAGAGATTCTCTGGCTGAGAAGCTTCAGCTTATTGATGATCAGTTTGCAGATGCTTA
CCCTCAGCGTATCAAGTTCGAATCTTTAGAAAATAAGCTAAATGAGTATAAGAGAGAAAATAGAAGAGCAA
CTTCGGGCAGAAATGTGTCAAAGTTGAAGTTTTTAAAGATACCGAGATAGCAAAAATTAATGGAAG
CAAAAAAAGATGAAAAGGAGTTAACCATGTCCAGAATGATTTTAAAAAGCTTGCAAGCAAAAATC
TGAAGCTCTCGTCTTCGGGAAAAGAGTACCCTGAAAGAATTCACAAGCACCAAGAGATTGAAACAAA
GAAATTTATGCTCAAAGGCAACTTTTACTAAAAGATATGGATTTGCTAAGAGGAAGAGAAGCAGAGCTGA
AGCAAAGAGTTGAAGCTTTTGAATTGAACCAGAAGCTCCAGGAAGAAAAACATAAAAGCATAACTGAGGC
ACTTAGGAGACAGGAGCAGAATATAAAGAGTTTTGAGGAGACCTATGACCGAAAAGCTCAAGAATGAACTT
CTAAAGTATCAACTTGAAGTGAAGGATGACTACATCATTAGAAGTAACTGACTGATTGAAGATGAAAGGA
AGAATAAAGAAAAAGCTGTTCAATTTGCAAGAGGAGCTCATAGCTATTAATTAAGAAAAAGGAGGAACTCAA
TCAATCTGTAATCGTGTGAAAGAACTTGAGCTTGAATTAGAGTCTGTCAAAGCCAGTCTTTGGCAATA
ACAAAACAAAACCATATGCTGAATGAAAAGTTAAAGAGATGAGTGATTATTCCTACTAAAAGAAGAGA
AACTGGAGCTTCTGGCACAAAATAAATTAACAACAACCTGGAAGAGAGTAGAAATGAAAACCTGCG
TCTCCTAAACCGCTAGCTCAGCCGGCTCTGAACTTGCAGTCTTTCAGAAAAGAACTACGAAAAGCCGAA



[View online »](#)

AAGGCTATAGTGGTTGAGCATGAGGAGTTCGAAAGCTGCAGGCAAGCTCTGCACAAACAACTGCAAGACG
 AAATTGAGCATTCTGCACAGCTGAAGGCCAGATTCTAGGTTACAAAGCTTCTGTAAAGAGTTTAACTAC
 TCAGGTTGCCGATTTAAATGCAACTGAAGCAAACCTCAGACAGCCCTAGAGAATGAAGTGTACTGCAAT
 CCAAAGCAGTCTGTGATCGATCGTTCTGTCAATGGATTAATAATGGCAATGTGGTGCCTTGCAATGGTG
 AGATAAGTGGGGATTTCTTGAACAATCCTTTTAAACAGGAAAACGTTCTAGCACGATGGTTGCATCAAG
 GATCACAATTAATCCAACCTGCATGGGTGGAGGGTAGTCCCCTGATTCTGACCTTGAGTTGTAGCCAAT
 ACTAAGGCAAGGGTCAAAGAGCTTCAGCAAGAGGCCGACGCTTGAAAAGGCTTTCAGAAGTTACCATC
 GGAGAGTCATTAATAAAGCTGCCAAAAGCCACTAGCAGCAAAGAGCCACCATCTCTGCACTTGCTGGA
 AGCCTTCAAAAACATTACTTCCAGTTCCCGGAAAGACATATTTTTGGAGAGGACAGAGTTGTCTCTGAG
 CAGCCTCAAGTGGGCACACTTGAAGAAAGGAATGACGTCGTGGAAGCACTGACAGGCAGTGCAGCCTCGA
 GGCTCCGCGGGGCACTTCTCCAGACGCTCTTCCACACCCCTTCCAAAAGCAAAAAGAAGCCTCGA
 AAGTGAATGTATCTGGAAGTCTGGGCAGATCACACATTGCTTCCCCAGTCTTGTCTGACAGAATG
 CCCCTACCATCACCCACTGAGTCTAGGCACAGCCTCTCCATCCCTCTGTCTCCAGCCCTCCGGAGCAGA
 AAGTGGGTCTTTATCGAAGACAACTGAACCTCAAGACAAAAGTGAATTTTCAGATGTGGACAAGCTAGC
 TTTTAAGGATAATGAGGAGTTTGAATCATCTTTTGAATCTGCAGGGAACATGCCAAGGCAGTTGAAATG
 GCGGGCTTTCTCTGCCGGGATATGTCTCATGTGGACGCTGCTGCAGCTGCTGTGCCCTCTCATATC
 AGCACCCAAGTGTAGATCAGAAACAAATGAAGAACAAGGAAGAAGAAAAATACGGGAACAGCAAGT
 GAAAGAACGAAGGCAGAGAGAAGAAAGGAAGGCAGAGTAACCTACAAGAAGTTTTAGAAAAGGGAACGAAGA
 GAACTAGAAAACTGTATCAGGAAAGGAAGATGATTGAAGAATCACTGAAGATTAATAAAAAAGGAAT
 TAGAAATGGAAAATGAATTAGAAATGAGTAATCAAGAAAATAAAGACAACTCTGCTCACAGTGAAAATCC
 TTTAGAGAAATACATGAAAATCATCCAGCAGGAGCAAGACCAGGAGTCCGCAGATAAGAGCTCAAAAAG
 ATGGTCCAAGAAGGCTCCCTAGTGGACACGCTGCAATCTAGTGACAAAGTCGAAAGTTTAAACAGGCTTTT
 CTCATGAAGAAGTACGACTCTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220154 representing NM_003611
 Red=Cloning site Green=Tags(s)

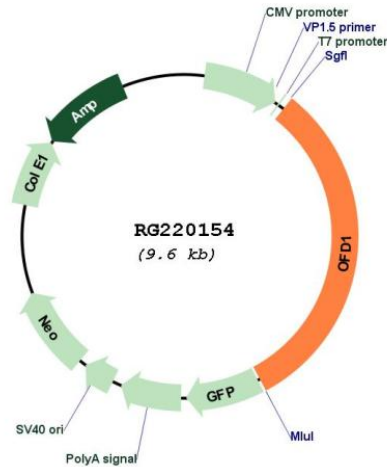
MMAQSNMFTVADVLSDQLRKKLYQTFKDRGILDTLKTLQRNQLIHELMHPVLSGELQPRISIVEGSSLL
 IGASNSLVADHLQRCGYEYSLSVFFPESGLAKEKVFMTQDLLQLIKINPTSSLYKSLVSGSDKENQKGF
 MHFLKELAEYHQAKESCNETQTSSTFNDSLAEKQLIDDQFADAYPQRKIFESLEIKLNEYKREIEEQ
 LRAEMCQKLFKDFDEIAKIKMEAKKYEKELTMFQNDFEKACQAKSEALVLRKSTLERIHKHQEIETK
 EIIYAQRQLLLKMDLLRGREAELKQVFAFELNQLQEEKHKSITEALRRQEQNIKSFEETYDRKLNEL
 LKYQLELKDDYIIRTNRLIEDERKNKEKAVHLQEELIAINSKKEELNQSVMNRVKELELESVKAQSLAI
 TKQNHMLNEKVKEMSDYSLLKEEKLELLAQNKLLKQLEESRNENLRLLNRLAQPAPAVFQKELRKA
 KAIIVVEHEEFESCRQALHKQLQDEIEHSAQLKAQILGYKASVKSLLTQVADLKLQKQTALENEVYCN
 PKQSVIDRSVNGLINGNVVPCNGEISGDFLNNPFQENVLARMVASRITNYPTAWVEGSSPDSDFEVAN
 TKARVKELQQAERLEKAFRSYHRRVIKNSAKSPLAAKSPPSLHLLAFKNITSSSPERHIFGEDRVVSE
 QPQVGTLEERNVVEALTGSAASRLRGGTSSRRLSSTPLPKAKRSLESEMYLEGLGRSHIASPSPCDRM
 PLPSPTESRHSLSIPPVSSPPEQKVGLYRRQTELQDKSEFSDVDKLAFKDNEEFESSFESAGNMPRQLEM
 GGLSPAGDMSHVDAAAAAPLSYQHPVSDQKQIEEQKEEKIREQQVKERRQREERRQSNLQEVLERERR
 ELEKLYQERKMIEESLKIKIKKELEMENELMSNQEIKDKSAHSENPLEKYMKIIQQEQDQESADKSSK
 MVQEGSLVDTLQSSDKVESLTGFSHEELDDSW

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


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:	<ol style="list-style-type: none">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_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
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]