

## Product datasheet for **RG217538**

### IFRD1 (NM\_001550) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFRD1 (NM_001550) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFRD1
Synonyms:	PC4; TIS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217538 representing NM\_001550  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGAAGAACAAGAAGCGGAACACTCCCCACCGCGGTAGCAGTGCTGGCGGCGCGGGTCAAGAGCAG  
 CCGCAGCGACGGCGGCGACAGCAGGTGGCCAGCATCGAAATGTTACGCCTTTTAGTGATGAAGATGCATC  
 AATTGAAACAATGAGCCATTGCAGTGGTTATAGCGATCCTTCCAGTTTTGCTGAAGATGGACCAGAAGTC  
 CTTGATGAGGAAGGAACCAAGAAGACCTAGAGTACAAGTTGAAGGGATTAATTGACCTAACCTGGATA  
 AGAGTGCAGAACAGGCAAGCAGCTCTTGAAGGTATTAATAATGCAGTGGCTTCAAAAATGCTGTATGA  
 ATTTATTCTGAAAGGAGAATGACTTTAACTGATAGCATTGAACGCTGCCTGAAAAAGGTAAGAGTGAT  
 GAGCAACGTGCAGCTGCAGCGTTAGCATCTGTTCTTTGATTTCAGCTGGGCCCTGGAATTGAAAGTGAAG  
 AGATTTTGAAGAACTCTTGACCAATCCTAAAGAAAATCATTGTGATGGGTGAGTGTAGCAGGCTAG  
 GCAAACCTTGCAACTTGTCTTGGTGTGTTGCTGTTTTATTGCCACAGATGACATTACTGAACTATACTCA  
 ACTCTGGAATGTTTGGAAAATATCTTCACTAAATCCTATCTCAAAGAGAAAGACACTACTGTTATTTGCA  
 GCACTCCTAATACAGTGCTTCATATCAGCTCTCTTCTTGCATGGACACTACTGCTGACCATATGCCCAAT  
 CAATGAAGTGAAGAAAAGCTTGAGATGCATTTCCATAAGCTTCCAAGCCTCCTCTCTTGTGATGATGTA  
 AACATGAGAATAGCTGCTGGTGAATCTTTGGCACTTCTCTTTGAATTGGCCAGAGGAATAGAGAGTGACT  
 TTTTTATGAAGACATGGAGTCTTGGACGAGATGCTTAGGGCCTTGGCAACAGATGGAATAAACACCG  
 GGCCAAAGTGGACAAGAGAAAGCAGCGGTGAGTTTTCAGAGATGCTCCTGAGGGCAGTGGAGAACGGGAT  
 TTTCCAACAGAAACCATTAATTTGGTCTGAACGCATGTATATTGATTGCTGGTAAAAAACACACCT  
 ATGACACCTTTAAGGAGGTTCTTGGATCAGGGATGCAGTACCATTGCAGTCAAATGAATTCCTTCGAAA  
 TGTATTTGAAGTGGACCCAGTGTGCTTGTGCTGCAACGCTTAAAACGATGAAGATTTCTCGTTTC  
 GAAAGGCATTTATATACTCTGCAGCCTTCAAAGCTCGAACCAAAGCTAGAAGCAAATGTCGAGATAAGA  
 GAGCAGATGTTGGAGAATTCTTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG217538 representing NM\_001550  
 Red=Cloning site Green=Tags(s)

MPKNKKRNTPHRGSSAGGGGSGAAAATAATAGGQHRNVQPFSDASDIETMSHCSGYSDFSSFAEDGPEV  
 LDEEGTQEDLEYKLGKGLIDLTLDKSAKTRQAALLEGIKNALASKMLYEFILERRMTLTDSIERCLKKGS  
 EQRAAALASVLCIQLGPGIESEEILKTLGPILKKIICDGSASMQRQTCATCFGVCCFIATDDITELYS  
 TLECLENIFTKSYLKEKDTTIVICSTPNTVLHISLLAWTLLLITCPINEVKKKLEMHFKLPSLLSCDDV  
 NMRIAAGESLALLFELARGIESDFFYEDMESLTQMLRALATDGNKHRKVDKRRQSVFRDVLRAVEERD  
 FPTETIKFGPERMYIDCWVKKHTYDTFKEVLGSGMQYHLQSNEFLRNVFELGPPVMLDAATLKTMKISRF  
 ERHLYNSAAFKARTKARSKCRDKRADVGEFF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001550

**ORF Size:** 1353 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\\_001550.3](#)

**RefSeq Size:** 2273 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 3475

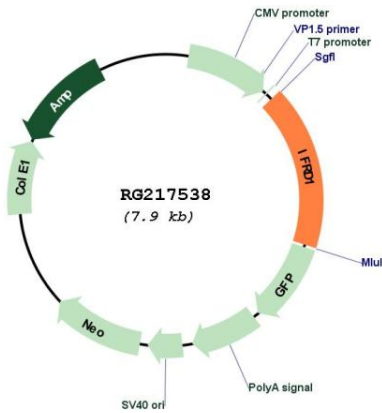
**UniProt ID:** [O00458](#)

**Cytogenetics:** 7q31.1

**Domains:** IFRD\_C, IFRD

**Gene Summary:** This gene is an immediate early gene that encodes a protein related to interferon-gamma. This protein may function as a transcriptional co-activator/repressor that controls the growth and differentiation of specific cell types during embryonic development and tissue regeneration. Mutations in this gene are associated with sensory/motor neuropathy with ataxia. This gene may also be involved in modulating the pathogenesis of cystic fibrosis lung disease. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2010]

**Product images:**



Circular map for RG217538