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Product datasheet for RR206590

Ifrd1 (NM_019242) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifrd1 (NM_019242) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ifrd1
Synonyms:	Pc4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR206590 representing NM_019242
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAAGAACAAGAAGCGGAACGCTCCCCACCGCGGTGGCGGGGGTGGCGGCGGCTCCGGGGCAGCGA
CGTCGGCGGCCACGACAGGTGGCCCGCATCGGACTGTTCAACCTTTCAGTGATGAAGACGCATCCATTGA
AACAATGAGCCACTGCAGTGGCTATAGCGATCCTTCCAGTTTCGCGGAGGATGGACCAGAAGTTCTTGAT
GAGGAAGGAACTCAGGAAGACTTAGAGTACAAGTTGAAGGGATTAATTGACCTAACCCTTGATAAGAGTG
CGAAGACAAGACAGGCAGCTCTTGAAGGTGTTAAAAATGCGCTGTCTTCAAAAGTGCTGTATGAGTTTGT
TCTCGAGAGAAGAATGACTTTAACTGATAGCATTGAGCGCTGTCTGAAAAAAGGAAAGAGTGATGGGCAG
CGCGCAGCTGCAGCGCTCGCGTCCGTTCTTTGTATTCAGTTGGGCCCTGGATTGGAAAGTGAAGAGATTT
TAAAGACTCTTGGACCAATCCTAAAAAAAAATAATTTGTGATGGAACAGCGAGTATCCAGGCTAGGCAGAC
TTGTGCAACTTGCTTTGGTGTTTGCTGTTTTATTGCCACAGATGACATCACTGAGCTGTATTCAACTCTG
GAGTGCTTGGAAGGTATCTTCACCAAGTCCTACCTTAAAGAGAAAGACACGAACGTTCCTTGCAGCACTC
CTAATACAGTGCTTCACATCAGCTCGCTTCTCGCATGGACGCTACTGCTGACCATATGCCCAATCAGTGA
AGTGAAGAAAAAGCTGGAGCTGCATTTCCATAAACTTCCAAGCCTCCTTTCTTGTGATGATGTAAACATG
AGAATTGCTGCTGGCGAATCTTTGGCACTTCTGTTTGAATTGGCCAGAGGAATGGAGAGTGACTTTTTTT
ATGAAGATATGGATTCTTTGACCCAGATGCTCCGGGCTCTGGCTACAGATGGAAATAAACACCGTGCCAA
AGTGGACAAGAGAAAGCAGCGCTCTGTCTTCAGAGACGTCCTGAGGGCTGTGGAGGAACGGGATTTTCCA
ACAGAAACTGTTAAATTCGGTCCTGAGCGCATGTATATTGATAGCTGGGTCAAAAAGCACACCTATGACA
CGTTTAAAGAGGCTCTTGGATCAGGGATGCAGTACCACTTGCAGACAAATGAATTCCTTCGCAATGTATT
TGAGCTGGGGCCCCCTGTGATGCTCGATGCTGCAACACTTAAAACCATGAAGATTCCTCGTTTTGAAAGG
CATTTATATAACTCTGCAGCTTTCAAAGCTCGAACAAAAGCCCGAAGCAAATGCCGAGATAAGAGAGCAG
ATGTTGGAGAATTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

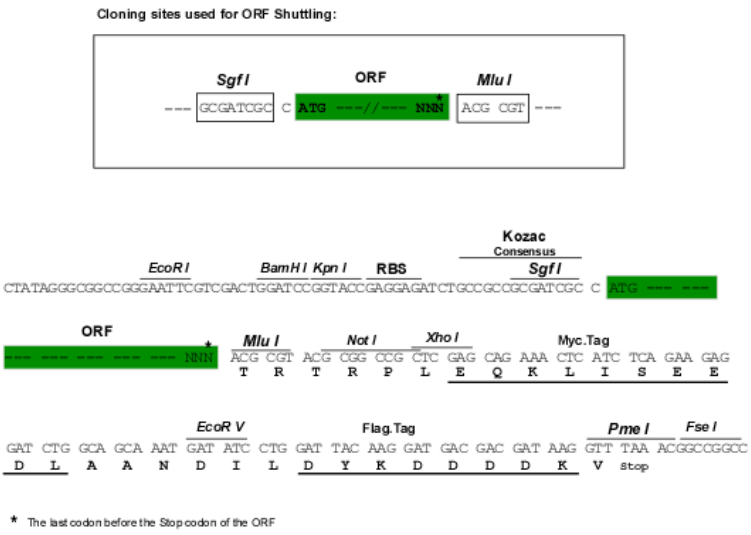
>RR206590 representing NM_019242
Red=Cloning site Green=Tags(s)

MPKNKKRNAPHRGGGGGGGSGAATSAATTGGPHRTVQPFSDEDASIETMSHCSGYSDPSSFAEDGPEVLD
EEGTQEDLEYKLKGLIDLTLDKSAKTRQAALEGVKNALSSKVLYEFVLERRMTLTDSIERCLKKGKSDGQ
RAAAALASVLCIQLGPGLESEEILKTLGPILKKIICDGTASIQARQTCATCFGVCCFIATDDITELYSTL
ECLEGIFTKSYLKEKDTNVPCSTPNTVLHISSLLAWTLLLTICPISEVKKKLELHFHKLPSLLSCDDVNM
RIAAGESLALLFELARGMESDFFYEDMDSLTQMLRALATDGNKHRAKVDKRKQRSVFRDVLRAVEERDFP
TETVKFGPERMYIDSWVKKHTYDTFKEALGSGMQYHLQTNEFLRNVFELGPPVMLDAATLKTMKIPRFER
HLYNSAAFKARTKARSKCRDKRADVGEFF

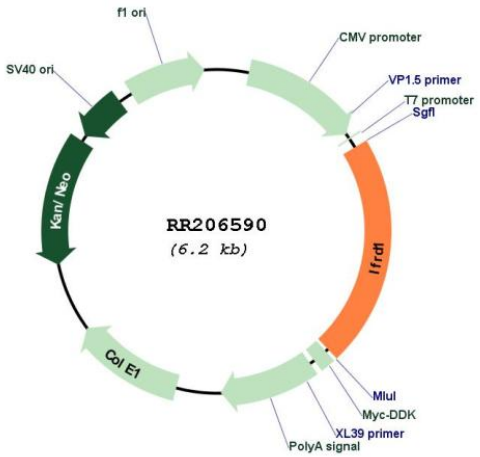
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019242

ORF Size: 1347 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_019242.1, NP_062115.1
RefSeq Size:	1736 bp
RefSeq ORF:	1350 bp
Locus ID:	29596
UniProt ID:	P20695
Cytogenetics:	6q21
MW:	49.8 kDa
Gene Summary:	may have a role in signal transduction; necessary for muscle differentiation [RGD, Feb 2006]