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Product datasheet for RC238837

IRX4 (NM_001278635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX4 (NM_001278635) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRX4
Synonyms:	IRXA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC238837 representing NM_001278635
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTACCCGCAGTTTGGATACCCCTACTCCTCGGCTCCCCAGTTCTTGATGGCCACCAACTCCCTGA
GCACGTGCTGCGAGTCCGGAGGCCGCACGCTGGCGGACTCCGGGCCCGCCGCCTCGGCCCAGGCGCCGGT
CTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGCGCCACGAGCTCAACTCGGCCGCGGCGCTG
GGCGTCTATGGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACTACGTGACCTACGGCTCGGAGGCGT
CCGCCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTCGGGATCTGCGCATGGGGGCCTGGCACC
AGCCGCTGCCGCCTACTACCCTTACGAGCCAGCTCTGGGCCAGTACCCCTATGACAGGATCAAACGGCTA
GGCGGTCATCCCCATAAAGGAATTGGCCTGGACCTCTCTGGCTTGGGAAGGAGCCCAGGCTCCCTGTATG
GAACCATGGACAGCGGCACGCGGCGCAAGAACGCCACGCGCGAGACCACCAGCACGCTCAAGGCCTGGCT
GCAGGAGCACCGCAAGAACCCCTACCCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAAGATG
ACCCTCACACAGGTCTCCACCTGGTTCGCCAACGCGCGCCGGCGCCTCAAGAAGGAGAACAAGATGACGT
GGCCGCCGCGGAACAAGTGCGCAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGAGGGGGGCGA
GGAGGAGGCGCGGGAGGAGCCCCTCAAGAGCTCCAAGAACGCAGAGCCCGTGGGCAAAGAGGAGAAGGAG
CTGGAGCTTAGTGACTTGGACGACTTCGACCCGCTGGAAGCAGAGCCGCCGGCGTGCGAGCTGAAGCCGC
CCTTCCACTCCCTGGACGGCGGTCTGGAGCGCGTCCCCGCCGCGCCCGACGGCCCGGTCAAGGAGGCCTC
AGGCGCGCTCCGGATGTCTCTGGCCGCGGGTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGG
AGCTGTCTCCGCAGCGCGGCGGCCGGGCCGGAGCCACTGCCGGGCGCAGAGGGCGGCCCTCAGGTCTGCG
AGGCCAAGCTGGGGTTTGTGCCGGCGGGGGCGTCGGCAGGCCTGGAGGCTAAGCCGCGCATCTGGTCCCT
GGCCCACACAGCCACCGCCGCCGCCGCCGCCGCCACCTCCCTGAGCCAGACTGAGTTTCCGTCGTGCATG
CTCAAGCGCCAAGGTCCCGCGGCCCCTGCGGCTGTGTCCTCCGCGCCCGCCACGTCCCCGTCTGTGGCCC
TTCCCCACTCTGGCGCCCTGGACAGGCACCAGGACTCCCCGGTAACCAGTCTCAGAAACTGGGTGGACGG
GGTCTTCCACGACCCCATCCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCCAAGGGCGCCCTC
CTGGACCCCGGGCCTCTGGGACGCTCGCTGGGGGCGGGCGCGAACGTGCTGACTGCACCCCTGGCCCGCG
CCTTTCCGCCTGCCGTGCCCCAGGACGCCCCAGCTGCAGGCGCCGCCAGGGAGCTGCTCGCCCTGCCCAA
GGCCGGCGGCAAACCCTTCTGCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238837 representing NM_001278635
Red=Cloning site Green=Tags(s)

MSYPQFGYPYSSAPQFLMATNSLSTCCESGGRTLADSGPAASAQAPVYCPVYESRLLATARHELNSAAAL
GVYGGPYGGSQGYGNYVTYGSEASAFYSLNSFDSKDGSGSAHGGLAPAAAAYYPYEPALGQYPYDRIKRL
GGHPHKGIGLDLSGLGRSPGSLYGTMDSGTRRKNATRETTSTLKAWLQEHRKNPYPTKGEKIMLAIITKM
TLTQVSTWFANARRRLKKENKMTWPPRNKCADEKRPYAEGEEEEGGEEEAREEPLKSSKNAEPVGKEEKE
LELSDLDDFDPLEAEPPACELKPPFHSLDGGLERVPAAPDGPVKEASGALRMSLAAGGGAALDEDLERAR
SCLRSAAAGPEPLPGAEGGPQVCEAKLGFVPAGASAGLEAKPRIWSLAHTATAAAAAATSLSQTEFPSCM
LKRQGPAAPAAVSSAPATSPSVALPHSGALDRHQDSPVTSLRNWVDGVFHDPILRHSTLNQAWATAKGAL
LDPGPLGRSLGAGANVLTAPLARAFPPAVPQDAPAAGAARELLALPKAGGKPFCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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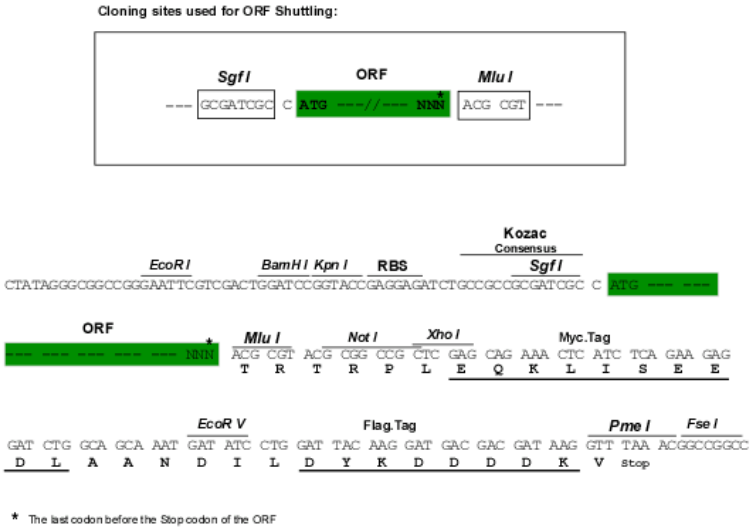
Cloning Scheme:



ACCN: NM_001278635

ORF Size: 1635 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_001278635.1, NP_001265564.1

RefSeq Size: 2411 bp

RefSeq ORF: 1638 bp

Locus ID: 50805

UniProt ID: P78413

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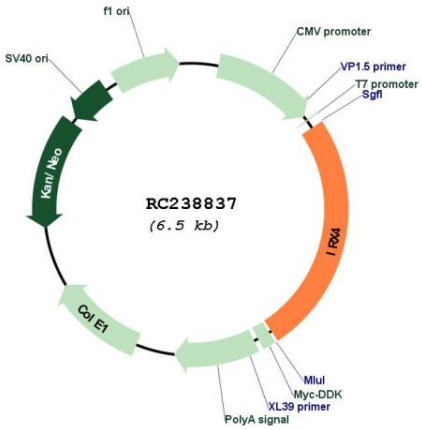
Cytogenetics:	5p15.33
MW:	57.5 kDa
Gene Summary:	Likely to be an important mediator of ventricular differentiation during cardiac development. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238837

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