

Product datasheet for **RG238836**

IRX4 (NM_001278633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX4 (NM_001278633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRX4
Synonyms:	IRXA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238836 representing NM_001278633.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCTACCCGCAGTTTGGATACCCCTACTCCTCGGCTCCCCAGTTCTTGTATGGCCACCAACTCCCTG
AGCACGTGCTGCGAGTCCGGAGCCGCACGCTGGCGGACTCCGGGCCCGCCGCTCGGCCAGGCGCCG
GTCTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACC GCGCGCCACGAGCTCAACTCGGCCGCGCG
CTGGGCGTCTATGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACTACGTGACCTACGGCTCGGAG
GCGTCCGCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTCGGGATCTGCGCATGGGGGCTG
GCACCAGCCGCTGCCCTACTACCTTACGAGCCAGCTCTGGCCAGTACCCCTATGACAGGATCAAA
CGGCTAGGCGGTATCCCATAAAGGAATTGGCTGGACCTCTCTGGCTTGGGAAGGAGCCAGGCTCC
CTGTATGGAACCATGGACAGCGGCACGCGCGCAAGAACGCCACGCGGAGACCACCAGCAGCTCAAG
GCCTGGCTGCAGGAGCACCGAAGAACCCTACCCACCAAGGGGAGAAGATCATGCTGGCCATCATC
ACCAAGATGACCCTCACACAGGTCTCCACTGGTTCGCCAACGCGCGCCGCGCCTCAAGAAGGAGAAC
AAGATGACGTGGCCGCCGGAACAAGTGCAGACGAGAAGCGCCCTACGCGGAGGGCGAGGAGGAG
GAGGGGGCGAGGAGGAGGCGCGGGAGGAGCCCTCAAGAGCTCCAAGAACGCAGAGCCCGTGGGAAA
GAGGAGAAGGAGCTGGAGCTTAGTGACTTGGACGACTTCGACCCGCTGGAAGCAGAGCCCGCGGTGC
GAGCTGAAGCCGCCCTTCCACTCCCTGGACGGCGGTCTGGAGCGCGTCCCGCCGCGCCGACGCCCCG
GTCAAGGAGGCCCTCAGGCGCGTCCGGATGTCTCTGGCCGCGGTGGCGGAGTGTCTGGACGAGGAC
CTGGAGAGGGCCCGAGCTGTCTCCGACGCGCGCGCGGGCCGGGAGCCACTGCCGGCGCAGAGGGC
GGCCCTCAGTCTGCGAGGCCAAGCTGGGTTTGTGCCGGCGGGGCGTGGCAGGCTGGAGGCTAAG
CCGCGCATCTGGTCCCTGGCCACACAGCCACC GCGCCCGCCGCGCCACCTCCCTGAGCCAGACT
GAGTTTCCGTCGTGCATGCTCAAGCGCAAGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCGCC
ACGTCCCGTCTGTGGCCCTTCCCACTCTGGCGCCCTGGACAGGACACAGGACTCCCGGTAACCACT
CTCAGAACTGGGTGGACGGGTCTTCCACGACCCATCCTCAGGCACAGCACTTGAACCAGGCTGG
GCCACCGCAAGGGCGCCCTCCTGGACCCCGGCTCTGGGACGCTCGTGGGGCGGGCGCAACGTG
CTGACTGCACCCCTGGCCCGCCTTCCGCTGCCGTGCCCCAGGACGCCCCAGCTGCAGGCGCCGCC
AGGAGCTGCTCGCCCTGCCAAGGCCGGCGCAAAACCCTTCTGCGCC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238836
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MSYPQFGYPYSSAPQFLMATNSLSTCCESGRTLADSGPAASAQAPVYCPVYESRLLATARHELNSAAA
LGVYGGPYGGSQYGNVYTYGSEASAFYSLNSFDSKDGSGSAHGLAPAAAAAYPYEPALGQYPYDRIK
RLGGHPHKIGLDL SGLGRSPGSLYGTMDSGTRRKNATRETTSTLKAWLQEHKKNPYPTKGEKIMLAI I
TKMTLTQVSTWFANARRRLKKNKMTWPPRNKCADEKRPYAEGEEEEEGEEEEAREEPLKSSKNAEPVVK
EEKELELSDLDDFDPLEAEPACELKPPFHSLDGLLERVPAAPDGPVKEASGALRMSLAAGGGAALDED
LERARSCLRSAAAGPEPLPGAEGGPQVCEAKLGFVPAGASAGLEAKPRIWLAHTATAAAAAATSLSQT
EFPSCMLKRQGAAPAAYSSAPATSPSVALPHSGALDRHQDSPVTLRNWVDGVFHDPILRHSTLNQAW
ATAKGALLDPGPLGRSLGAGANVLTAPLARAFAVPAVQDAPAAGAARELLALPKAGGKPFCA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

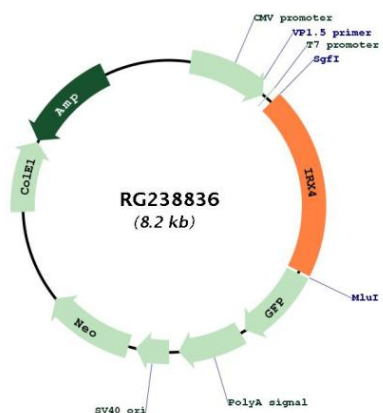
Restriction Sites:

Sgfl-MluI

Cloning Scheme:


- ACCN:** NM_001278633
- 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).
- RefSeq:** [NM_001278633.1](#), [NP_001265562.1](#)
- RefSeq Size:** 2406 bp
- RefSeq ORF:** 1638 bp
- Locus ID:** 50805
- UniProt ID:** [P78413](#)
- 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 RG238836