

Product datasheet for **RG211129**

IRX4 (NM_016358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX4 (NM_016358) 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:

>RG211129 representing NM_016358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTACCCGAGTTTGGATACCCCTACTCCTCGGCTCCCCAGTTCTTGATGGCCACCAACTCCCTGA
 GCACGTGCTGCGAGTCCGAGGCCGACACGCTGGCGGACTCCGGGCCCGCCGCTCGGCCAGGCCCGGT
 CTAAGTCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGGCCACGAGCTCAACTCGGCCGCGGCGCTG
 GGCGTCTATGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACTACGTGACCTACGGCTCGGAGGCGT
 CCGCCTTCTACTCGTGAACAGCTTTGATTCCAAGGATGGTTCGGGATCTGCGCATGGGGCCTGGCACC
 AGCCACTGCCCTACTACCTTACGAGCCAGCTCTGGCCAGTACCCCTATGACAGGTATGGAACCATG
 GACAGCGGCACGCGGCAAGAACGCCACGCGGAGACCACGACGCTCAAGGCTGGCTGCAGGAGC
 ACCGAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATACCAAGATGACCCTCAC
 ACAGGTCTCCACCTGGTTCGCCAACGCGCGCCGCGCCTCAAGAAGGAGAACAAGATGACGTGGCCGCCG
 CGGAACAAGTGGCAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGGGGGGCGAGGAGGAGG
 CGCGGGAGGAGCCCTCAAGAGCTCCAAGAACGCAGAGCCCGTGGGCAAAGAGGAGAAGGAGCTGGAGCT
 TAGTGACTTGGACGACTTCGACCCGCTGGAAGCAGAGCCCGCGCGTGGAGCTGAAGCCGCCCTTCCAC
 TCCCTGGACGGCGGTCTGGAGCGCTCCCGCCGCGCCGACGGCCCGGTCAAGGAGGCCTCAGGCGCGC
 TCCGGATGTCTCTGGCCGCGGTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGGAGCTGTCT
 CCGCAGCGCGGCGCGGGCCGGAGCCACTGCCGGCGCAGAGGGCGGCCCTCAGGTCTGCGAGGCCAAG
 CTGGGGTTGTGCCGCGGGGGCGTGGCAGGCTGGAGGCTAAGCCGCGCATCTGGTCCCTGGCCACA
 CAGCCACCGCGCCCGCCCGCCCACTCCCTGAGCCAGACTGAGTTCCGTCGTGCATGCTCACTCCAC
 CCAAGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCGCCACGTCGCCGTCTGTGGCCCTCCCCAC
 TCTGGCGCCCTGGACAGGACCAGGACTCCCGGTAACCAGTCTCAGAACTGGGTGGACGGGTCTTCC
 ACGACCCCATCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCAAGGGCGCCCTCCTGGACCC
 CGGGCCTCTGGACGCTCGTGGGGGCGGGCGGAACGTGCTGACTGCACCCCTGGCCGCGCCTTCCG
 CCTGCCGTGCCCCAGGACGCCAGCTGCAGGCGCGCCAGGAGCTGCTCGCCCTGCCAAGGCCGCGC
 GCAAACCTTCTGCGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211129 representing NM_016358
 Red=Cloning site Green=Tags(s)

MSYPQFGYPYSSAPQFLMATNSLSTCCESGGRTLADSGPAASAQAPVYCPVYESRLLATARHELNSAAAL
 GVYGGPYGGSQGYGNYVTYGSEASAFYSLNSFDSKDGSGSAHGLAPATAAYYPYEPALGQYPYDRYGM
 DSGTRRNATRETTSTLKAWLQEHKPNPYTKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWPP
 RNKCADEKRPYAEGEEEGGEEAAREEPLKSSKNAEPVGKEEKELELSDLDDFDPLEAEPACELKPPFH
 SLDGGLERVPAAPDGPVKEASGALRMSLAAGGGAALDEDLERARSCLRSAAAGPEPLPGAEGGPQVCEAK
 LGFVPAGASAGLEAKPRIWLAHTATAAAAAATSLSQTEFPSCMLKRQGPAAAPAVSSAPATSPSVALPH
 SGALDRHQDSPVTSLRNWDGVFHDPILRHSTLNQAWATAKGALLDPGPLGRSLGAGANVLTAPLARAFP
 PAVPQDAPAAGAARELLALPKAGGKPFCA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016358

ORF Size: 1557 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_016358.1](#), [NP_057442.1](#)

RefSeq Size: 2212 bp

RefSeq ORF: 1560 bp

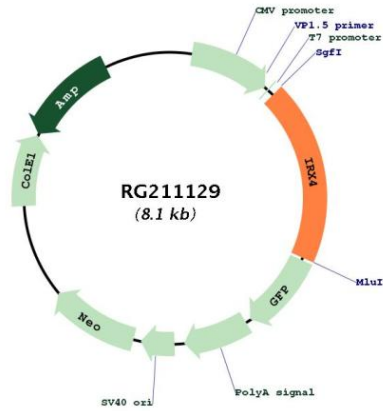
Locus ID: 50805

UniProt ID: [P78413](#)

Cytogenetics: 5p15.33

Gene Summary: Likely to be an important mediator of ventricular differentiation during cardiac development. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211129