

Product datasheet for **RC234228**

IRX5 (NM_001252197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX5 (NM_001252197) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRX5
Synonyms:	HMMS; IRX-2a; IRXB2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC234228 representing NM_001252197
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTATCCGAGGGCTACTGTACCAGCCGTCGCCCTCGCTGGCGCTCTACTCGTGCCCGCGTACA
 GCACCAGCGTCATTTTCGGGGCCCGCACGGATGAGCTCGGCCGCTTCTTCGGGCTCCGGTTCTCGCC
 CTACGCTGGCTCGACTGCCTTACCGCGCCCTCGCCGGGTACAACCTCGACCTCCAGTACGGCGCCGAC
 CCCGCGGCCGCCGCCGCCGCCCTTCTCCTCGTACGTGGGCTCTCCCTACGACCACACCCGGCATGG
 CGGGCTCCTTGGGTACCATCCTTACGCGGCCCTGGGATCGTACCCTTACGGGGACCCAGCGTACCG
 GAAGAACGCCACAAGGGACGCCACGGCTACCCTCAAGGCTGGCTCAACGAGCACCGCAAGAACCCTAC
 CCCACCAAGGGCGAGAAGATCATGCTGGCCATCATACCAAGATGACCCTCACCCAGGTGCCACCTGGT
 TCGCCAACGCGCGCCGGCCCTCAAGAAAGAGAATAAAATGACGTGGACGCCGCGGAACCGCAGCGAGGA
 CGAGGAAGAGGAGGAGAATTGACCTGGAGAAGAACGACGAGGACGAGCCCAGAAGCCCGAGGACAAG
 GCGACCCCGAGGGCCCCGAAGCAGGAGCTGAGCAGAAGGCGGCTTCGGGCTGCGAACGGCTTCAGGGAC
 CACCCACCCCTGCAGGAAGGAGACGGAGGGCAGCCTCAGCGACTCGGATTTAAGGAGCCGCCCTCGGA
 GGGCCGCTCGACGCGCTGCAGGGCCCCCCCCGCACCGCGGGCCCTCCCGGCTGGGCCAGCGGGCGG
 CGGCTGGCGGAGGACCCGGCCCCCTACTACCCCGCGGAGCGCGGGCCCGGCCCGCATCCAGCCCGG
 GCGAGGTGCCTCCGGGTCCCGCGGGGCCCTCGGTTATCCATTGCGCGCTCCGCCCGCCCTCTGCGGT
 GCTCGCAAGCCAACTGTGGTCTTTGGCAGAGATCGCCACATCGTCGGACAAGGTCAAGGACGGGGG
 GCGGGAAACGAGGGCTCTCCATGCCACCGTGTCCCGGCCATAGCCGGCAAGCCCTAGGAGGACGCC
 GGGGTCGCGCGCCCGCGCCGCGCTCAGCTCGCCCTCGGCGCAGTGTCTTTCCAGGGGAGCGGTGCT
 GTCCCGGCTCTCTACTACCCCGCCCTTCTATCCCGGCTACACGAACATGGCTCCTTCGGACACCTT
 CATGGCCACCCGGGGCCCGGGCCAGGCCCCACAACCGGTCGGGGTCTCATTTCATGGATTAAACCAGA
 CCGTGTGAAACCGAGCGGACGCTTTGGCTAAAGACCCGAAAATGTTGCGGAGCCAGTCTCAGCTAGACCT
 GTGCAAGACTCTCCCTATGAATTGAAGAAAGGTATGTCCGACATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234228 representing NM_001252197
 Red=Cloning site Green=Tags(s)

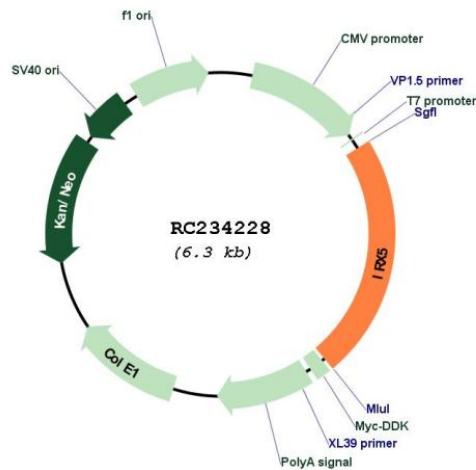
MSYPQGYLYQPSASLALYSCPAYSTSVISGPRDELGRSSSGSAFSPYAGSTAFTAPSPGYNSHLQYGAD
 PAAAAAAAFSSYVGSYPYDHTPGMAGSLGYHPYAAPLGSYPYGDPAKRKNATRDATATLKAWLNEHRKNPY
 PTKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWTPRNRSEDEEEENIDLEKNDDEPQKPEDK
 GDPEGPEAGAEQKAASGCERLQGPPTPAGKETEGSLSDSDFKEPPSEGRDLALQGPRTGGPSPAGPAAA
 RLAEDPAPHYPAGAPAPGPHPAAGEVPPGPGGSPVIHSPPPPPPAVLAKPKLWSLAEIATSSDKVKDGG
 GGNEGSPCPPCGPIAGQALGSRASPAPAPSRSPAQCFFPGGTVLSRPLYYTAPFYPGYNTYGSFGHL
 HGHPGPGPPTTGPESHFNGLNQTVLNRADALAKDPKMLRSQSQLDLCKDSPYELKKGMSDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001252197

ORF Size: 1446 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_001252197.1](#), [NP_001239126.1](#)

RefSeq Size: 2075 bp

RefSeq ORF: 1449 bp

Locus ID: 10265

UniProt ID: [P78411](#)

Cytogenetics: 16q12.2

Protein Families: Transcription Factors

MW: 50.8 kDa

Gene Summary: This gene encodes a member of the iroquois homeobox gene family, which are involved in several embryonic developmental processes. Knockout mice lacking this gene show that it is required for retinal cone bipolar cell differentiation, and that it negatively regulates potassium channel gene expression in the heart to ensure coordinated cardiac repolarization. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]