

Product datasheet for **SC128090**

IRX5 (NM_005853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX5 (NM_005853) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRX5
Synonyms:	HMMS; IRX-2a; IRXB2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005853 edited
 GCCCTTATGTCCTATCCGAGGGCTACTTGTACCAGCCGTCGCCCTCGCTGGCGCTCTAC
 TCGTGCCCGGCGTACAGCACCAGCGTCATTTCCGGGGCCCCGCACGGATGAGCTCGGCCGC
 TCTTCTTCGGGCTCCGCGTTCTCGCCCTACGCTGGCTCGACTGCCTTACGGCGCCCTCG
 CCGGGTACAACCTCGACCTCCAGTACGGCGCCGACCCCGCGGCCGCCGCCGCCGCC
 TTCTCCTCGTACGTGGGCTCTCCCTACGACCACACACCCGGCATGGCGGGCTCCTGGGG
 TACCATCCTTACGCGCGCCCCCTGGGATCGTACCCTTACGGGGACCCAGCGTACCCGGAAG
 AACGCCACAAGGGACGCCACGGCTACCCTCAAGGCTGGCTCAACGAGCACCCGAAGAAC
 CCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAAGATGACCCCTACC
 CAGGTGTCCACCTGGTTCGCAACGCGCGCCGCGCCTCAAGAAAGAGAATAAAATGACG
 TGGACGCCCGGAACCGCAGCGAGGACGAGGAAGAGGAGGAGAACATTGACCTGGAGAAG
 AACGACGAGGACGAGCCCAAGAAGCCGAGGACAAGGCCGACCCCGAGGGCCCCGAAGCA
 GGAGGAGCTGAGCAGAAGCGGCTTCGGGCTGCGAACGGCTTCAGGGACCACCCACCCCT
 GCAGGCAAGGAGACGGAGGGCAGCCTCAGCGACTCGGATTTTAAGGAGCCGCCCTCGGAG
 GGCCGCCCTCGACGCGCTGACGGGCCCCCCCCGACCGGCGGGCCCTCCCCGGCTGGGCCA
 GCGGCGCGCGGGTGGCGGAGGACCCGGCCCTACTACCCCGCGGAGCGCCGCGGCC
 GGCCCGCATCCAGCCGCGGGCGAGGTGCCTCCGGGTCCCGGCGGGCCCTCGGTTATCCAT
 TCGCCGCCTCCGCGCCGCCCTCCTGCGGTGCTCGCCAAGCCAAACTGTGGTCTTTGGCA
 GAGATCGCCACATCGTCGGACAAGGTCAAGGACGGGGCGCGGGGAACGAGGGCTCTCCA
 TGCCACCCGTGTCCCGGGCCATAGCCGGGCAAGCCCTAGGAGGCAGCCGGGCGTCGCCG
 GCCCGGCGCGGTACGCTCGCCCTCGGCGCAGTGTCTTTCCAGGCGGGACGGTGCTG
 TCCCGGCTCTCTACTACACCGGCCCTTCTATCCGGCTACACGAACTATGGCTCCTTC
 GGACACCTTCATGGCCACCCGGGCCCCGGGCCAGGCCCAACCCGGTCCGGGGTCTCAT
 TTCAATGGATTAACACGACCGTGTGAACCGAGCGGACGCTTTGGCTAAAGACCCGAAA
 ATGTTGCGGAGCCAGTCTCAGCTAGACCTGTGCAAAAGACTCTCCCTATGAATTGAAGAAA
 GGTATGTCGACATTTAACGCGGGCTGCGTGGTCCCGGACTTTTCTAATTTATTAATAAA
 CATGGCCTTGGCAGTTATTTTCCATCACCGAGAGAGAGACAGAGAGAGAAAAATAAAC
 TACCCCTCTATTAGAAGTTTATAGTTTATGGAGATGGATGACATAAAAAATGTAACAT
 CTCCACACACAAAAAATGTCTTAACCAACCGAAAAGAAAAATTAATAAAAGGATTTGT
 ATTAATCTTATTCTGTATATTTAATGTAGCATTTTTGTATTTAAATTGATAATTCAATA
 TCTTTGAAGTAAATTATGAAATCAAGACACCTGTACAGGCATTTAATGTTTTTTGTAAT
 ATAAATATATACATTTGTGTTTCCCCAAAACCTGTTTCATAGTTAAAAAATAAGTTTA
 ATTTAATTTTTTACACCTATTGATTCTGCTGGGTATGAGCTAAAGTATTACGAAAAGGAA
 ACAGGTTAATACTTAGATTTAAAAAGTAAAGAAAAGTGCAGGCGCCTTTGTAATAATGCA
 AAATATTTAATTAAGAGATTTTAACATAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005853 unedited
 AATTCATATAGGGTCGGCCGCGCAATCGCCCTNAGTCCTATCCGAGGGCTACTTGTAC
 CAGCCGTCGCGCTCGCTGGCGCTCTACTCGTGCCCGGCGTACAGCACCAGCGTCATTTCCG
 GGGCCCCGCACGGATGAGCTCGGCCGCTTCTTTCGGGCTCCGCGTTCTCGCCCTACGCT
 GGCTCGACTGCCTTACGGCGCCCTCGCCGGGCTACAACCTCGACCTCCAGTAGGGCGCC
 GACCCCGCGGCCGCCGCCGCCGCCCTTCTCCTACACGTGGGCTCTCCCTACGACCAC
 ACACCCGGCATGGCGGGCTCCTTGGAGTACCATCCTTACGCGGCGCCCTGGGATCGTAC
 CCTTACGGGGACCCAGCGTACACGGAGAACCACAAGGGACGCCACGGCTACCATCAAG
 GCCTGGCTCAAGCGAGCACCGCAAGAACCCTTCCCCACGAGAGGGGCGAGAAGATGCAT
 GCTGGCCAATGAAGACCAAGATGACCGTCGACCCAGGGGTCCAACATGGGTTGAGAAAAG
 GCGCGGCCGAGGGCTAGAGNAGAGAGGAGTATAAAATAGCAGTGGAACCGGAGGAGAGAG
 CCACAGCGGATGGACGAGGGGAGGAGAGGGAGAATCAAGAGGAGATAGAGAGAAGGAGGG
 AGGAAGGAGGAAAGCACCAGAAGAGGCCCGAGGAGCAAGAGCGTGTGCCTTAGAGAGGCT
 GCAGAGAAGCACTGGAGGAGGTAGGTAAGGCAAAGGTAGCTTTAGAGGACTGGCGAGCAG
 AGTCTCGAGGGACGAACGAGTTCGCTGGTAAATTAGAGAGGGAAGGTGAGTGATAGCTA
 GGGAGGAGGAAGGAGAGATTAAGAAAGTCCCGCAGCAGT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005853 unedited AGGATGGGGGATTGCATGCAGTGCACCTCCACGGGCAGGAGAGGCACTGGGGAGGGGTC ACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAG TCGAGTTTTTTTTTTTTTTTTATGTTAAATCTCTTTAATTAATATTTTGCATTTTAT AAAGGCGCCTGCAGTTTCTTTCACTTTTAAATCTAAGAGTATAACCTGTTTCCTTTCCG TAATACTTTAGCTCATACCCAGCAGAATCAATAGGTGTAAAAAATTAATTAACATTTGA TTTTTAACTATGAAACAGTTTTGGGGGAAACACAAATGTATATTTTATTACAAAAA AACATTAATGCCTGTACAGGTGCTTGATTTCATAATTTACTTCAAAGATATTGAATTA TCAATTTAAATACAAAAATGCTACATTAATATACAGAATAAGATTTAATACAAATCCTT TTCTAATTTTTCTTTTCGGGTGGTTAAGACATTTTTTTAGGTGTGTGGAGATGTTTACAT TCTTATGTCATCCATCTCCATAAATAAACTTCTGACTAGGAGGGGTAGTTTATTTTC TCTCTCTGGCTCTCTCTCGGTGACGAAAAATAACTGCCAAGGCCATGTTTTTAATAA TTACAAAAGTTCCGGACCGACCCCGCCCGCTTAAAGGTCGACATACCCTTCTCAATTAT AAGGAGAAGCTTTGCAAGGTCTAGCTCGGCCTGGCTCTCCACATTTACGGTCTTAGG TCAACCGTCCGTCGGTTACAACCGCGGGCCCAACCATGGAATGGGCCCCCGGACGGTT CC
Restriction Sites:	Please inquire
ACCN:	NM_005853
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_005853.4</u> , <u>NP_005844.3</u>
RefSeq Size:	2064 bp
RefSeq ORF:	1452 bp
Locus ID:	10265
UniProt ID:	<u>P78411</u>
Cytogenetics:	16q12.2
Protein Families:	Transcription Factors

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]

Transcript Variant: This variant (1) encodes the longer isoform (1).