

Product datasheet for **MC202002**

Irx5 (NM_018826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx5 (NM_018826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Irx5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC051959 sequence for NM_018826
 GCAGCCAGAGGCGCGGGGAAGCCAACCAGGAGGCGCCGCGGGCCGGAGCCCGGGAGCCGGGGCTCGAAG
 AGCTGCGGCGCCGGGGCAGCCAGAAGCCAGGTGCCCTCTCGCTCGCCCTCGCAGGGCGCCGCCCGGCTCGT
 TGGCCCGCCGCGCGCGCGCCCATGCCCGTGTGTGGCCATGTCTACCCGACAGGGCTACTTGTACCA
 GCCGTCCGCCTCGCTGGCGCTCTACTCGTGCCCGCATAACAGCACCAGCGTCATTTGGGGCCCCGCACG
 GATGAGCTCGGCCGCTCTTCTTGGGCTCCGCGTTCTCGCCCTACGCTGGCTCCACTGCCTTCACGGCTC
 CCTCGCCCGGCTACAACCTCGCACCTCCAGTACGGCGCCGACCCCGCGGCTGCGGGCCGCGCTGCCTTCTC
 TTACGTGGGCTCTCCCTACGACCACACTCCCGGTATGGCAGGTTCTTGGGATATCACCCCTATGCAGCA
 CCTCTGGGCTCCTATCCTTATGGGGACCCCGCTACCGGAAGAATGCCACTCGGGACGCTACAGCCACTC
 TCAAGGCTGGCTCAACGAGCACCGCAAGAACCCTACCCACCAAGGGAGAGAAGATCATGCTGGCCAT
 TATACCAAGATGACCCTCACCCAGGTGTCCACCTGGTTTGCACGCGCGCCGGCGCCTCAAGAAAGAG
 AACAAAGATGACGTGGACGCCACGGAACCGCAGCGAGGACGAGGAGGAGGAGAGAATCGATCTGGAGA
 AGAACGACGAGGACGAGCCACAGAAGCCCGAGGACAAGGGCGACCTCGAGGGCCCCGAATCAGGAGGAGC
 AGAGCAGAAGGGCACTGCGGGCTGCGAACGGCTGCAGGGGCCGCTCAGCCCGCCGGCAAGGAGACCGAA
 GGCAGCCTCAGCGACTCGGATTTAAGGAGTCGTCTCCGAAGGCCGCCACGATGAGCTGCCAGGCCCC
 CGCGCGCGGGCGAGTCTCCCGGCTGGGCCCGCAACCGCTCGTCTGGCGGAAGACGCGGGTCTCACTA
 CCCC GCGAGTGTGCCGGCTCCCGGCCCGCACCCATCAGCCGAGAGCTGCCCGCCGGCTCGGGCGGATCC
 TCGGTCATCCACTCGCCACCGCCACCTCCGCCACCGCCTCCGGCCGTGCTAGCCAAGCCAAACTGTGGT
 CTCTGGCCGAGATCGCCACATCTCGGACAAGGTCAAGGACGGGGCGGAGGGAGCGAGGGCTCTCCATG
 CCCACCGTGCCAGGGCCCATGGGCGGGCAAACGCTTGGAGGCAGCCGCGCGTCTCTGCCCCAGCGCCC
 GCACGCTCACCTCCGCGCAGTGTCCCTTCCGGGCGGGACGGTGTGTCCCGCCCTCTTATTACACGG
 AGCCCTACAGCGGGTCTGGCTCTCATTTCATGGATTAAACCAGACGGTGTGAATCGTGCGGACGTT
 TTGGCTAAAGACCCGAAAATGTTGCGGAGCCAGTCTCAGCTAGACCTGTGCAAAGACTCCCCTATGAGT
 TGAAGAAAGGTATGTCCGACATTTAACTCTGGTGCAGTATCCCGGACTTTCCTAATTTATTAACCAT
 GGCCTTGGCAGTTATTTTCCATCACCAAGAGAGAGAAAAGAAAAAGAAATAAACTACCCCTCTTATTCA
 GAAGTTTATAGTTTATGGAGATGGATGGCATAAAAATGTATACATCTCCACACTCGAAAAAATTGTTTTA
 GCCAACTGAAAAGAAAAAAACTTAAAAGGATTTGTATTAATCTTATTCTGTATTTAATGTAGCAT
 TTTTGTATTTAATTGATAATTCAGTATCTTTGAAGTAAATTATGAAATCAAGACACCTGTACAGGCATT
 TAATGTTTTTGAATATAAATATATACATTTGTGTTCCCCAAAACCTGTTTCATAGTTTAAAAATACAAG
 TTTAATTTAATTTTTTACACCTATTGATTTTTTCTGGGTATGAGCTAAAATATTATTACAGAAAGGAA
 GCAGGTTATACGCTTAGATTTAAAAAAAAGTAAAGAAAACCTGCAGTGGTCTTTGTAAAATGCAAAATA
 TTTAATTAAGGAGATTTAACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_018826
Insert Size: 1455 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC051959](#), [AAH51959](#)

RefSeq Size: 2225 bp

RefSeq ORF: 1455 bp

Locus ID: 54352

UniProt ID: [Q9JKQ4](#)

Cytogenetics: 8 44.93 cM

Gene Summary: Establishes the cardiac repolarization gradient by its repressive actions on the KCND2 potassium-channel gene. Required for retinal cone bipolar cell differentiation. May regulate contrast adaptation in the retina and control specific aspects of visual function in circuits of the mammalian retina. Involved in craniofacial and gonadal development (By similarity). Modulates the migration of progenitor cell populations in branchial arches and gonads by repressing CXCL12.[UniProtKB/Swiss-Prot Function]