

Product datasheet for **MR207753**

Irx5 (NM_018826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx5 (NM_018826) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irx5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207753 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTACCCGAGGGCTACTGTACCAGCCGTCGCTCGCTGCGCTCTACTCGTCCGCCGATACA
 GCACCAGCGTCATTTTCGGGGCCCGCACGGATGAGCTCGGCCGCTTCTTCGGGCTCCGCGTTCTCGCC
 CTACGCTGGCTCCACTGCCTTACGCGCTCCCTCGCCCGGTACAACCTCGCACCTCCAGTACGGCGCCGAC
 CCCGCGGCTGCGGCCCGCTGCCTTCTTACGTGGGCTCTCCCTACGACCACACTCCCGGTATGGCAG
 GTTCTTTGGGATATCACCTTATGCAGCACCTCTGGGCTCCTATCCTTATGGGGACCCCGCTACCGGAA
 GAATGCCACTCGGGACGCTACAGCCACTCTCAAGGCTGGCTCAACGAGCACCGCAAGAACCCTACCCC
 ACCAAGGGAGAGAAGATCATGCTGGCCATTATACCAAGATGACCCTCACCCAGGTGTCCACCTGGTTTG
 CCAACGCGCGCCGCGCCTCAAGAAAGAGAACAAGATGACGTGGACGCCACGGAACCGCAGCGAGGACGA
 GGAGGAGGAGGAGAACATCGATCTGGAGAAGAACGACGAGGACGAGCCACAGAAGCCCGAGGACAAGGGC
 GACCTCGAGGGCCCCGAATCAGGAGGAGCAGAGCAGAAGGCGACTGCGGGCTGCGAACCGCTGCAGGGGC
 CGCTCAGCCCCGCGGCAAGGAGACCGAAGGCAGCCTCAGCGACTCGGATTTAAGGAGTCGTCCTCCGA
 AGGCCGCCACGATGAGCTGCCAGGCCCGCGCGCGGGCGAGTCTCCCGGCTGGGCCCGCAACCGCT
 CGTCTGGCGGAAGACGCGGGTCTCACTACCCCGGAGTGTGCCGGCTCCCGGCCCGACCCATCAGCCG
 GAGAGTGCCTCCCGGCTCGGGCGGATCCTCGGTATCCACTCGCACCGCCACCTCCGCCACCGCTCC
 GGCCGTCTAGCAAGCCAACTGTGGTCTCTGGCCGAGATCGCCACATCCTCGGACAAGTCAAGGAC
 GGGGGCGGAGGGAGCGAGGGCTCTCCATGCCACCGTCCCGAGGGCCATGGGCGGGCAACGCTTGGAG
 GCAGCCGCGCTCTCCTGCCCGCGCCGACGCTCACCTCCGCGCAGTGTCCCTTTCCGGGCGGGGAG
 GGTGCTGTCCCGCCTTTTATTACACGCGCCCTTCTATCCGGGCTACACGAACTATGGCTCCTTCGGA
 CATCTTACGCGCCACCCAGGGCCAGGGCAAGCCCTACAGCGGGTCTGGCTCTCATTTCATGGATTAA
 ACCAGACGGTGTGAATCGTGCGGACGTTTTGGCTAAAGACCCGAAAATGTTGCGGAGCCAGTCTCAGCT
 AGACCTGTGCAAAGACTCCCCCTATGAGTTGAAGAAAGGTATGTCCGACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207753 protein sequence
 Red=Cloning site Green=Tags(s)

MSYPQGYLYQPSASLALYSCPAYSTSVISGPRDELGRSSSGSAFSPYAGSTAFTAPSPGYNSHLQYGAD
 PAAAAAAAFSYVGSFYDHTPGMAGSLGYHPYAAPLGSYPYGDPAAYRKNATRDATATLKAWLNEHRKNPYP
 TKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWTPRNRSEDEEEENIDLEKNDDEPQKPEDKG
 DLEGPESGGAEQKATAGCERLQGPLSPAGKETEGSLSDSDFKESSEGRHDELPRPPRAGESSPAGPATA
 RLAEDAGPHYPASVPAPGPHPSAGELPPGSGGSSVIHSPPPPPPPPAVLAKPKLWLAETATSSDKVKD
 GGGGSEGPSPPCPGPMGGQTLGGSRASAPAPARSPSAQCFFPGGTVLSRPLYYTAPFYPGYNTNYSFG
 HLHGHPGPGSPPTAGPGSHFNGLNQTVLNRADVLAKDPKMLRSQSQLDLCKDSPYELKKGMSDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018826

ORF 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

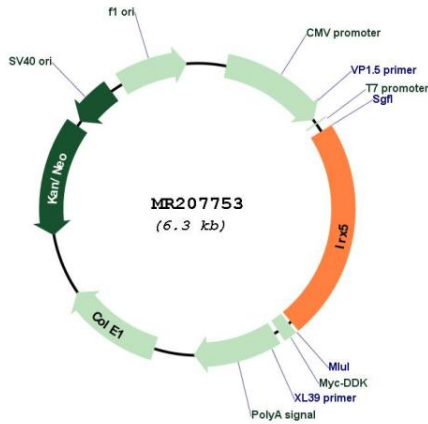
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_018826.2, NP_061296.1](#)
RefSeq Size: 2421 bp
RefSeq ORF: 1455 bp
Locus ID: 54352
UniProt ID: [Q9JKQ4](#)
Cytogenetics: 8 44.93 cM
MW: 50.8 kDa

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]

Product images:



Circular map for MR207753