

Product datasheet for **RG212385**

IRX5 (NM_005853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRX5 (NM_005853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRX5
Synonyms:	HMMS; IRX-2a; IRXB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212385 representing NM_005853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTATCCGAGGGCTACTTGTACCAGCCGTCGCCCTCGCTGGCGCTCTACTCGTGCCCGCGTACA
 GCACCAGCGTCATTTTCGGGGCCCGCACGATGAGCTCGGCCGCTCTTCTTCGGGCTCCGCGTTCTCGCC
 CTACGCTGGCTCGACTGCCTTACGCGCGCCTCGCCGGGTACAACCTCGACCTCCAGTACGCGCGCCGAC
 CCCGCGCGCCGCCGCCGCCGCTTCTCCTCGTACGTGGGCTCTCCCTACGACCACACCCGGCATGG
 CGGGCTCCTTGGGTACCATCCTTACGCGCGCCCTGGGATCGTACCCTTACGGGGACCCAGCGTACC
 GAAGAACGCCACAAGGGACGCCACGGCTACCCTCAAGGCTGGCTCAACGAGCACCAGCAAGAACCCTAC
 CCCACCAAGGGCGAGAAGATCATGCTGGCCATCATACCAAGATGACCCTACCCAGGTGTCCACCTGGT
 TCGCCAACGCGCGCCGGCGCCTCAAGAAAGAGAATAAAATGACGTGGACGCCGCGGAACCCGAGCGAGGA
 CGAGGAAGAGGAGGAGAATTGACCTGGAGAAGAACGACGAGGACGAGCCCAGAAGCCCGAGGACAAG
 GCCGACCCCGAGGGCCCCGAAGCAGGAGGAGCTGAGCAGAAGCGGCTTCGGGCTGCGAACGGCTTCAGG
 GACCACCCACCCCTGCAGGCAAGGAGACGGAGGGCAGCCTCAGCGACTCGGATTTAAGGAGCCGCCCTC
 GGAGGGCCGCTCGACGCGCTGCAGGGCCCCCCCCGACCCGGCGGGCCCTCCCGGCTGGGCCAGCGGCG
 GCGCGGCTGGCGGAGGACCCGGCCCTCACTACCCCGCGGAGCGCCGGCGCCCGGCCCGCATCCAGCCG
 CGGGCGAGGTGCCTCCGGTCCCGGCGGGCCCTCGGTTATCCATTCGCCGCTCCGCCCGCCCTCTGC
 GGTGCTCGCCAAGCCAAACTGTGTCTTTGGCAGAGATCGCCACATCGTCGGACAAGGTCAAGGACGGG
 GGCGGGGGAACGAGGGCTCTCCATGCCACCGTGTCCCGGGCCATAGCCGGCAAGCCCTAGGAGGCA
 GCCGGGCGTCGCGGCCCGCGCCGTCACGCTCGCCCTCGGCGCAGTGTCTTTTCCAGGCGGGACGGT
 GCTGTCCCGGCTCTACTACACCGCGCCCTTCTATCCGGCTACACGAACATATGGCTCCTTCGGACAC
 CTTTATGGCCACCCGGGGCCCGGCCAGGCCCAACCAGGTCCGGGCTCATTTCATGATTAAACC
 AGACCGTGTGAACCGAGCGGACGCTTTGGCTAAAGACCCGAAAATGTTGCGGAGCCAGTCTCAGCTAGA
 CCTGTGCAAAGACTCTCCTATGAATTGAAGAAAGGTATGTCCGACATT

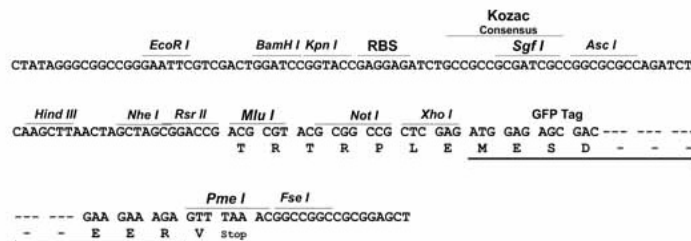
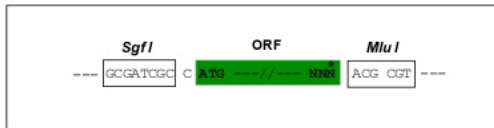
ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

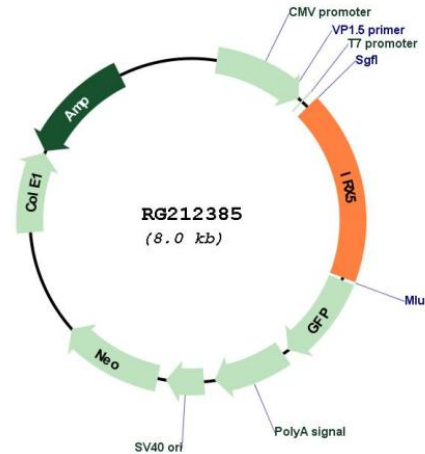
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_005853

ORF Size: 1449 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_005853.4](#), [NP_005844.3](#)

RefSeq Size: 2078 bp

RefSeq ORF: 1452 bp

Locus ID: 10265

UniProt ID: [P78411](#)

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]