

Product datasheet for **RC205722**

Iroquois homeobox protein 3 (IRX3) (NM_024336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iroquois homeobox protein 3 (IRX3) (NM_024336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Iroquois homeobox protein 3
Synonyms:	IRX-1; IRXB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205722 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTTCCCCAGCTGGGATACCAATACATCCGCCGCTTTACCCGTCGAGCGCCGGGGCCGCTG
 CGGCAGCGCGCAGCGCGGGGCCCGGGCGGCCTGGGTGCCGAGCCTCGGAGCTGAACGCCTCGGG
 GTCCTGTCCAACGTGCTCTCGTCCGTGTACGGGGCGCCCTACGCCGCGGCCGCTGCGGCCGCGCCGCC
 CAAGGCTACGGCGCCTTCTGCCCTACGCCGCGGAGCTGCCCATCTTCCCGCAGCTGGGCGCGCAGTATG
 AGCTGAAGGACAGCCCCGGGTGCAGCATCCGGCCGCGGCTGCCGCTTCCGCACCCGCACCCCGCCTT
 CTACCCGTATGGCCAGTACCAGTTCGGGGACCCGTCCTCCCAAGAACGCCACCAGGGAGAGCACCAGC
 ACGCTGAAGGCCTGGCTCAACGAGCACCGAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGG
 CCATCATACCAAGATGACCCTCACCCAGGTGCCACCTGGTTCGCCAACGCGCGCCGGCGCCTCAAGAA
 GGAGAATAAGATGACTTGGGCGCCTCGCAGCCGCACTGACGAGGAGGAAACGCTTATGGGAGCGAGCGC
 GAGGAGGAAGACGAAGAGGAGGACGAGGAGGACGGCAAACGCGAGCTAGAGCTGGAGGAGGAGCTCG
 GGGGGGAGGAGGAGACACGGGGGGCGAGGGCCTGGCTGACGACGACGAGGACGAGGAGATCGATTTGGA
 GAACCTTAGACGGCGCGCCACCGAGCCTGAGCTGTCCCTGGTGGGGCGCGCAGGGATGGCGACCTA
 GGCTGGGACCCATTTCCGACTCCAAAAATAGCGACTCGGAAGATAGCTCTGAGGGCTTAGAGGACCGGC
 CACTACCGGTCTGAGTCTGGCTCCAGCGCCACCACAGTGGCCGTGGCCTCGCCGTCTCTGCCGTCCGC
 CCCCCTGAGCCTGGACCCCTGCGCTCCCGCACCAGCCCCCGCCTCCGCCCTGCAGAAGCCCAAGATCTGG
 TCCCTCGCGGAGACTGCCACAAGCCGGACAACCCGCGCCGCTCGCCTCCCGCGCGGGGGGTCTCCAC
 CGGGGGCAGCGGTCCGCGCTTCCGCCCTGCAGCTCTCTCCGGCCGCCCGCCCGCCGCTCACAGACT
 GGTCTCAGCGCCGCTGGGCAAGTTCCTGGCTTGACCAACCGGCCGTTTCCAGGCCACCGCCCGGCCCC
 CGCCCGCACCCGCTCTCCCTGCTGGGCTCTGCCCTCCGCACCTGCTGGGACTTCCCGGAGCCGGGGCC
 ACCCGGCTGCCGCGCGCCTTCTGCTCGCCAGCGGAGCCGAAGGCGGAACAGATCGTGTAGTGCCTT
 GGAAGTGGAGAAAAGTTACTCAAGACAGCTTTCAGCCCGTCCAGGCGGCCCCAGAACCATCTGGAC
 GCCGCCCTGGTCTTATCGGCTCTCTCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205722 protein sequence
 Red=Cloning site Green=Tags(s)

MSFPQLGYQYIRPLYPSEPGAAGGSGSAGARGGLGAGASELNASGSLSNVLSVYGYAPYAAAAAAAAA
 QGYGAFPLPYAAELPIFPQLGAQYELKDSQVQHPAAAAAFPHPHPAFYQYQFGDPSRPKNATRESTS
 TLKAWLNEHRKNPYPTKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWAPRSRTDEEGNAYGSER
 EEEDEEEDGKRELELEEEELGGEEDTGGEGLADDEDEEIDLENLDGAATEPELSLAGAARRDGL
 GLGPISDSKNSDSEDSSEGLEDRPLPVLAPAPPVAVASPLSPVSLDPCAPAPASALQKPKIW
 SLAETATSPDNPRRSPGAGGSPPGAAVAPSALQLSPAAAAAAHRLVSAPLGKFPWNTNRPFGPPPGP
 RPHPLSLLGSAPPHLLGLPGAAGHPAAAAAFARPAEPEGGTDRCSALEVEKLLKTAQVPRRPQNHL
 AALVLSALSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_024336

ORF Size: 1503 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.

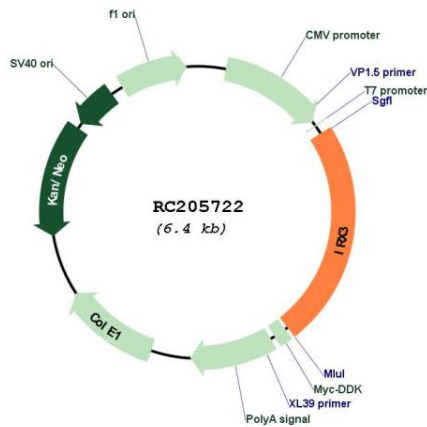
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024336.3
RefSeq Size:	2308 bp
RefSeq ORF:	1506 bp
Locus ID:	79191
UniProt ID:	P78415
Cytogenetics:	16q12.2
Protein Families:	Transcription Factors
MW:	52.1 kDa
Gene Summary:	IRX3 is a member of the Iroquois homeobox gene family (see IRX1; MIM 606197) and plays a role in an early step of neural development (Bellefroid et al., 1998 [PubMed 9427753]). Members of this family appear to play multiple roles during pattern formation of vertebrate embryos (Lewis et al., 1999 [PubMed 10370142]).[supplied by OMIM, Aug 2009]

Product images:



Circular map for RC205722