

Product datasheet for **MG208149**

Irx3 (NM_008393) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx3 (NM_008393) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irx3
Synonyms:	AI894186
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208149 representing NM_008393
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTTCCCCAGCTCGGATACCAGTACATCCGCCCTCTACCCACCCGAACGCCCGGGAGCTGCGG
 GCGGCGGTGGAGGCGGCAGTAGCGCTGGGGCCGGAGCGGTCCCGGCCCGGAGCCTCCGAGTTGGCCGC
 CTCTGGGTCCCTATCCAATGTGCTTTCATCAGTGTACGGGGCACCTACGCCGCTGCCGAGCTGCCGCC
 GCCCGCTCAGGGTTACGGCGCCTTCTGCCCTACGCCACGGAGCTGCCCATCTTCCCACAGCTGGGCG
 CTCAGTATGAGCTGAAGGACAGCCCTGGCGTCCAGCATCCGGCCACGGCCCGCGGTTCCCACCCCGCA
 CCCCCTTCTACCCCTATGGCCAGTACCAGTTCGGGGACCCGTCCTCCCAAGAACGCCACCCGGGAA
 AGCAGGACAGCTCAAGCCTGGCTCAACGAGCACCGCAAGAACCCGTACCCACCAAGGGCGAGAAGA
 TCATGTTGGCCATCATCACAAGATGACCTCACCCAGGTGTCCACCTGGTTCGCCAACGCGCGCCGGCG
 CCTCAAGAAGGAGAACAAGATGACGTGGCTCCCGTAGTCGCACGGACGAGGAGGCAATGCTTATGGG
 AGCGAGCGGGAGGAGGAGGACGAAGAGGAAGACGAGGAAGAGAGCAAACGCGAGCTGGAGATGGAGGAGG
 AGGAGCTCGCAGGAGAGGAGGAGGACACGGGGGCGAGGGGCTGGCCGACGACGACGAGGATGAGGAGAT
 CGATTTGGAAACTTAGACAGCGCGCAGCCGGTTCGGAGCTGACCTGGCTGGGCGGCGCACAGGAAC
 GGCGACTTCGGCTGGGACCCATTTTCGGACTGCAAACTAGCGACTCGGACGACAGCTCCGAAGGCTTG
 AGGACCGACCACTGTCCGCTCCTGAGCCTGGCCCCACCGCCACCGCCGTCGGCCAGGGCTCCTGCATCTCC
 ACCTTCTCACCCCTCCAGCCTGGATCCCTGCGCTCCGGCCCCGGCGCCCTCCTCCGCCCTCCAGAAGCCC
 AAGATCTGGTCACTGGCCGAGACGGCCACCAGCCCGACAACCCACGCCGCTCGCTCCCGAGCCGGAG
 GTTCGCTCCCGCGCAGCCGTTGCGCCCCGACGCTGCAGCTCTCGCCCGCGCCGCTGCAGCGGCTG
 AGCGGCACACAGACTCGTGTCCGGCCGCTTGGCAAATTCGCCGCTTGGACCAACAGGCCTTCCAGGG
 CCGCCGGCCGCTCCGCGCCGCACCCGCTGTCCATGCTGGGCTCGGCCCCACAGCACCTGCTGGGACTTC
 CCGGAGCCGAGGTCATCCCGCTGCGGCCGACCCGCTATGCTCGGCTGCCGAGCCGAGAGTGGAAAC
 AGATCGTGTAGTGCCTTGAAGTGGAGAAAAAGTTACTCAAGACAGCTTCCAGCCGGTCCAAGGCGG
 CCACAGAACCATCTGGACGCTGCTCTGGTCTTATCAGCTCTCTCCTCGTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208149 representing NM_008393
 Red=Cloning site Green=Tags(s)

MSFPQLGYQYIRPLYPPERPGAAGGGGGSSAGGRSGPGAGASELAASGSLSNLSSVYGAPYAAAAAA
 AAAQGYGAFLPYATELPIFPQLGAQYELKDSGQVQHPATAAAFPHPHPAFYPYQYQFGDP SRPKNATRE
 STSTLKAWLNEHRKNPYPTKGEKIMLAIIITKMTLTQVSTWTFANARRRLKKNKMTWAPRSRTDEEGNAYG
 SEREEDEEEDEESKRELEMEEEELAGEEEDTGGEGLADDEDEEIDLNLDSAAAGSELTLAGAHRN
 GDFGLGPI SDCKTSDSDSSEGLEDRPLSVLSLAPPPPPVARAPASPPSPSSLDPCAPAPAPSSALQKP
 KIWSLAETATSPDNRRSPPGAGGSPGA AVAPPTLQLSPAAAAAAAHRLVSAPLGKFPWNTNRPFG
 PPAGPRPHPLSMLGSAPQHLLGLPGAAGHPAAAAAAYARPAEPESGTDRC SALEVEKLLKTA FQPVPRR
 PQNHLD AALVLSALSSS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_008393

ORF Size: 1521 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_008393.3](#), [NP_032419.2](#)

RefSeq Size: 2349 bp

RefSeq ORF: 1524 bp

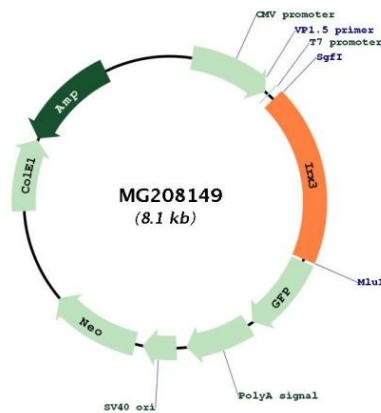
Locus ID: 16373

UniProt ID: [P81067](#)

Cytogenetics: 8 44.55 cM

Gene Summary: Transcription factor involved in SHH-dependent neural patterning (PubMed:10830170, PubMed:15201216). Together with NKX2-2 and NKX6-1 acts to restrict the generation of motor neurons to the appropriate region of the neural tube (PubMed:10830170, PubMed:15201216). Belongs to the class I proteins of neuronal progenitor factors, which are repressed by SHH signals (PubMed:10830170, PubMed:15201216). Involved in the transcriptional repression of MNX1 in non-motor neuron cells (PubMed:15201216). Acts as a regulator of energy metabolism (PubMed:24646999).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208149