

Product datasheet for **MG217838**

Irx4 (NM_018885) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx4 (NM_018885) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irx4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217838 representing NM_018885
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTACCCGAGTTTGGATACCCCTATTCTCTGCTCCTCAGTTCCTGATGACCACCAACTCCCTGA
 GCACGTGCTGCGAGTCGGGCGGCCGCACACTGGCTGATTCGGGGCTGCAGCCTCGGCACAGGCGCCCGT
 CTA**CTGCCTGTCTACGAGAGCCGGCTGCTGGCCACTGCACGCCACGA**ACTCAATTCTGCCGCGCGCTC
 GGCGTCTACGGGAGCCCTATGGCAGCTCGCAGGGCTATGGCAACTACGTGACCTATGGCTCTGAGGCAT
 CTGCTTTCTACTCTCTGAACAGCTTCGAGTCCAAGGATGGCACAGGATCTTACACGCGCGCCTACCACC
 CACTGCAGCTGCAGCCTACTACCCGTATGAGCCAGCTCTGAGCCAGTACCCATATGACAGGTACGGGACC
 GTGGACAGCGGCACGCGCGCAAGAATGCCACCCGGGAGACCACCAGCACACTGAAGGCCTGGCTGCAGG
 AGCACCCGAAGAACCCTACCCACCAAAGGAGAGAAGATCATGTGGCCATCATACCAAGATGACCCCT
 CACACAGGTTTCCACCTGGTTTCCAAACGCACGTCCGGCGCTCAAGAAGGAGAACAAGATGACCTGGCCA
 CCTAGAAAATAATGTGCAGATGAGAAGCGCCCTATGGGGAGGGGAGGAGGAGGCTGGAGAGGAGG
 AGTCACGGGAGGAGCCTCTCAAGAGTGCCAAGAGCGAAGGTCATGCTGGCAAAGACGACAAGGAGCTAGA
 ACTCAGTGACTTGAAGACTTCGACCCTCTAGATGCAGAGACCTCAGAATGTGAGCTGAAGACGCCCTTC
 CAGTCCCTGGATAGTGGACCAGAGAGGATTCTGCTTCTCTGATGGTCCCGGCACAGGCAAGGAGGCCCT
 CCACCACACTCCGGATGCCCTGGGCACCGCTGGTGGAGCTGTTATGGATGGGGATCTGGAGAGGGCAAG
 GAACTGCCTCCGAGCACAGTGGTCGTTCTGACTCTGGCGCCGAGGGCGGCCACCTGCTTGCGAAGCC
 AA**ACTGACCTTTGCTCAGGCGGGAGCGCCGCCGAACCTGGAGACCAAGCCCGCATCTGGTCTTGGCAC**
 ACACAGCCACCGCTGCTGCAGCCACAGCTCTGAGCCAGACTGAGTTTCCCTCTGCATGCTGAAACGCCA
 AGGTCCAACGGGTGATCTGCGACGACGCCAGCTCCTCACCTGCAGTCACGGCCCTTCTGGGGCTCTG
 GATAGGCACCAGGACTCCCCAGTAACTAGCCTCAGAAACTGGGTGGATGGGGATTTTACGATCCCATCC
 TTAGACACAGCACTTTGAACCAGGCCTGGGCCACCGCTAAGGGCGCACTTCTGGATCCCGGCCCTTAGG
 ACGCAATCTGGGGCGGGTACTAACGTACTGACGACGCCCTTGTCTCTTCCCGCCACGGTGCC
 CAAGACGTCCCACCTGCAGGGGCTCCCGGGAGCTGCTGGCTACGCCAAGGCCGGTGGCAAACCTTCT
 GCACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217838 representing NM_018885
 Red=Cloning site Green=Tags(s)

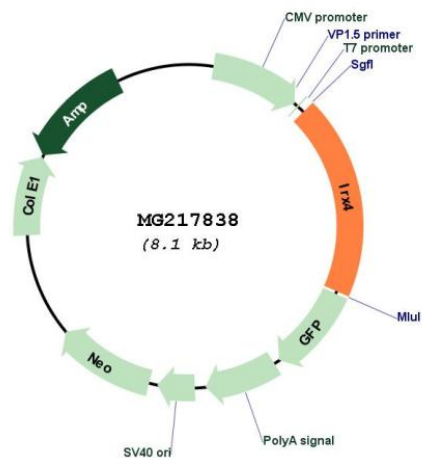
MSYPQFGYPYSSAPQFLMTTNSLSTCCESGGRTLADSGPAASAQAPVYCPVYESRLLATARHELNSAAAL
 GVYGSPPYSSQYGNVYTYGSEASAFYSLNSFESKDGTSAGLPPPTAAAAYYPYEPALSQYPYDRYGT
 VDSGTRRKNATRETTSTLKAWLQEHKKNPYPTKGEKIMLAIIITKMTLTQVSTWFANARRRLKKNKMTWP
 PRNKCADEKRPYGEHEEEAGEEESREEPLKSAKSEGHAGKDDKELELSDLEDFDPLDAETSECELKTPF
 QSLDSGPERIPASSDGPVTGKEASTTLRMPLGTAGGAVMDGLERARNCLRSTVVVPDSGAEPPACEA
 KLTFQAQAGAPPNLETKPRIWLAHTATAAAATALSQTEFPSCMLKRQGPTGVSATTPASSPAVTPAPSGAL
 DRHQDSPVTSLRNWDGVFHDPILRHSTLNQAWATAKCALLDPGPLGRNLGAGTNVLTPLACSFPTVP
 QDVPPAGASRELLATPKAGGKPFCT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_018885
 ORF Size: 1545 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_018885.2, NP_061373.1</p>
RefSeq Size:	<p>2601 bp</p>
RefSeq ORF:	<p>1548 bp</p>
Locus ID:	<p>50916</p>
UniProt ID:	<p>Q9QY61</p>
Cytogenetics:	<p>13 C1</p>
Gene Summary:	<p>Likely to be an important mediator of ventricular differentiation during cardiac development. [UniProtKB/Swiss-Prot Function]</p>