

Product datasheet for **MG223995**

Islr2 (NM_177193) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_177193) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Islr2
Synonyms:	B930052A04Rik; Linx; Mbu-3; mKIAA1465
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG223995 representing NM_177193
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAGATTACGGTACTAAGCGGGGGGCC
TTCGTCACAGTCACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG
GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC
CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG
TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG
TGGCCTCGCCCCCTGAGCTGCAGGGCGTGCCCGTGCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA
CGGTGCGTCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT
GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT
GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGTGGAGGAGATAAGGTGGAGGATGGAGAGGGTG
ACGGAGATGAGGACCTGCCTACGCAGACTGAAGCGCCAACCCCAACTCCAGCACCTGCTTGGCCAGCGCC
TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG
GCAGGCATCTACACTTGTCTGTGCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA
CTGCAGCGGGGCCGCAAAACACGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGTCCCGACCTTGA
GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGGTCTGCCCTTCAAGCCTGAAGGCAAAACCAAGGC
CAAGGTCTTGCCGAGTCAGCGTCTTGGGAAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC
AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA
TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTCACTCGG
CTGGATGTAGCAGAGCGTGAGGCTCGGGTGCAGCTGACGCCTCTGCTGCGCGCTGGGGCCCTGGCCAG
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GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACGTCAGGTGGTGTCTTCTACCA
AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC
CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG
CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTTTCGATCCGCGTGCTTCTACCTTGTGAGT
CTGAGAAAAGCTACCTGCTCGTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCCCT
GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTTCAGAGAGAGGAAAGCCTGGCGGGTTGCTCA
TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC
CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223995 representing NM_177193
 Red=Cloning site Green=Tags(s)

MGPFGALCLAWALLGVVRACPEPCACVDKYAHQFADCAKELREVPEGLPANVTTLSSLANKITVLRGA
 FVNVTQVTSWLVAHSEVRTVESGALAVLSQLKNLDLSHNLSNFPWSDLRNL SALQLLKMNNHRLGSLPR
 DALGALPDLRSLRINNRLRTLEPGTFDAL SALSHLQLYHNPFFHCSCGLVWLQAWAASTRVSLPEPDSIA
 CASPPQLQGVVHRLPALPCAPPSVRLSAEPPPEAPGTPLRAGLAFMLHCVAEGHPTPRLQWLQIPGGT
 VVLVPPVLSKEEDGGDKVEDGEGDDELPTQTEAPTPTPAPAWPAPPATPRFLALANGSLLVPLL SAKE
 AGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEEPDAQVPTSERKATTKGRSNSVLPFKPEGKTKG
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHCGHGDPSTRYVSNHAFNQSSDLKPHVFELGVIA
 LDVAEREARVQLTPLAARWGPDPGASGARRPGRRLRLLYLCPAGGGTAVQWSRVEEGVNAVWFRGLRP
 GTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPGKPYRLILR
 PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEEVPEEGLDEDVEQGDPSGDLQREESLAGCS
 LVESQSKANQEEFEAGSEYSDRLPLGAEAVNIAQEINGNYRQTAG

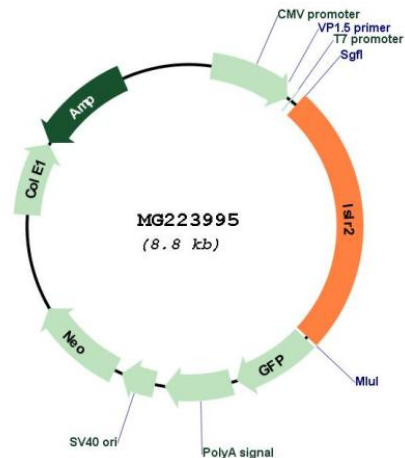
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_177193

ORF Size: 2235 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_177193.5](#), [NP_796167.2](#)

RefSeq Size: 4129 bp

RefSeq ORF: 2238 bp

Locus ID: 320563

UniProt ID: [Q5RKR3](#)

Cytogenetics: 9 B

Gene Summary: Required for axon extension during neural development.[UniProtKB/Swiss-Prot Function]