

## Product datasheet for **MG224405**

### Islr2 (NM\_001161538) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161538) 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:

>MG224405 representing NM\_001161538  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT  
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA  
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC  
TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG  
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG  
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG  
GATGCACTCGGCGCGCTCCGGACCTGCCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC  
CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG  
TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG  
TGGCCTCGCCCCCTGAGCTGCAGGGCGTGCCTGTCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA  
CGGTGCGTCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT  
GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT  
GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGTGGAGGAGATAAGGTGGAGGATGGAGAGGGTG  
ACGGAGATGAGGACCTGCCTACGCAGACTGAAGCGCCAACCCCAACTCCAGCACCTGCTTGGCCAGCGCC  
TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG  
GCAGGCATCTACACTTGTCTGTGCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA  
CTGCAGCGGGGCGCCAAAACACGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGTCCCGACCTTGA  
GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGGTCTGCCCTTCAAGCCTGAAGGCAAAACCAAGGC  
CAAGGTCTTGCCGAGTCAGCGTCTTGGGAAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC  
AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA  
TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTCACTCGG  
CTGGATGTAGCAGAGCGTGAGGCTCGGGTGCAGCTGACGCCTTGTCTGCGCGCTGGGGCCCTGGGCCAG  
ATGGTGTAGCGGAGCGCGGGCGGGGAGGCGGCCACTGCGCCTACTCTATCTGTGTCCTGCGGGGGG  
TGGCACGGCAGTTCAGTGGTCACGAGTGAAGAGGGGGTCAATGCCTACTGGTTTCGCGGCTGCGGCT  
GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACGTGCAGGTGGTGTCTTCTACCA  
AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC  
CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG  
CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTTTCGATCCGCGTGCTTCTACCTTGTAGT  
CTGAGAAAAGCTACCTGCTCGTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCT  
GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTTCAGAGAGAGGAAAGCCTGGCGGGTTGCTCA  
TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC  
CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224405 representing NM\_001161538  
 Red=Cloning site Green=Tags(s)

MGPFGALCLAWALLGVVRACPEPCACVDKYAHQFADCAKELREVPEGLPANVTTLSSLANKITVLRGA  
 FVNVTQVTSWLVAHSEVRTVESGALAVLSQLKNLDLSHNLSNFPWSDLRNL SALQLLKMNNHRLGSLPR  
 DALGALPDLRSLRINNRLRTLEPGTFDAL SALSHLQLYHNPFFHCSCGLVWLQAWAASTRVSLPEPDSIA  
 CASPPPELQGVVHRLPALPCAPPSVRLSAEPPPEAPGTPLRAGLAFMLHCVAEGHPTPRLQWLQIPGGT  
 VVLVPPVLSKEEDGGDKVEDGEGDGEDLPTQTEAPTPTPAPAWPAPPATPRFLALANGSLLVPLL  
 SAKEAGIYTCRAHNELGTNSTSLRVTVAAAGPPKHAPGTGEEPDAQVPTSERKATTKGRSNSVLPFKPEGKTKG  
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHCGHGDPSTRYVSNHAFNQSSDLKPHVFELGVIA  
 LDVAEREARVQLTPLAARWGPDPGASGARRPGRRLRLLYLCPAGGGTAVQWSRVEEGVNAVWFRGLRP  
 GTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPGKPYRLILR  
 PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEEVPEEGLDEDVEQGDPSGDLQREESLAGCS  
 LVESQSKANQEEFEAGSEYSDRLPLGAEAVNIAQEINGNYRQTAG

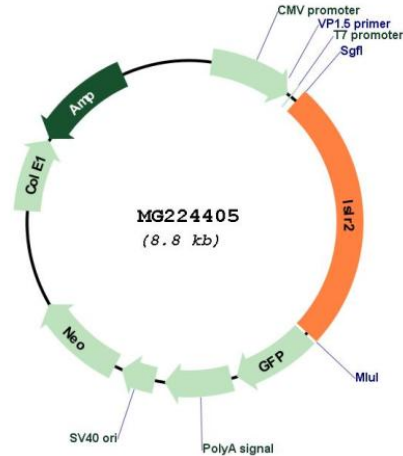
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001161538

**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\\_001161538.1](#), [NP\\_001155010.1](#)

**RefSeq Size:** 4087 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]