

## Product datasheet for **MR224405**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161538) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Islr2
Synonyms:	B930052A04Rik; Linx; Mbu-3; mKIAA1465
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

&gt;MR224405 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT  
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA  
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC  
TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG  
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG  
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG  
GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC  
CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG  
TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG  
TGGCCTCGCCCCCTGAGCTGCAGGGCGTGCCCGTGCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA  
CGGTGCGTCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT  
GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT  
GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGTGGAGGAGATAAGGTGGAGGATGGAGAGGGTG  
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TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG  
GCAGGCATCTACACTTGTCTGTCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA  
CTGCAGCGGGGCGCCAAAACACGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGGTCGGACCTCTGA  
GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGCTCCTGCCCTTCAAGCCTGAAGGCAAAAACCAAGGC  
CAAGGTCTTGCCGAGTCAGCGTCTTGGGAAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC  
AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA  
TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTCACTCGG  
CTGGATGTAGCAGAGCGTGAGGCTCGGGTGCAGCTGACGCCTCTTGCTGCGCGCTGGGGCCCTGGCCAG  
ATGGTGTAGCGGAGCGCGGGCGGGGAGGCGGCCACTGCGCCTACTCTATCTGTGTCCTGCGGGGGG  
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GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACGTCAGGTGGTGTCTTCTACCA  
AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC  
CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG  
CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTCGATCCGCGTGCTTCTACCTTGA  
CTGAGAAAAGCTACCTGCTCGTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCT  
GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTCAAGAGAGGAAAGCCTGGCGGGTTGCTCA  
TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC  
CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224405 protein sequence  
 Red=Cloning site Green=Tags(s)

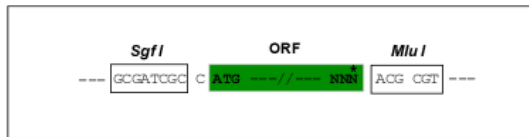
MGPF<sup>Red</sup>GALCLAWALLGVVRACPEPCACVDKYAHQFADCA<sup>Green</sup>YKELREVPEGLPANVTTL<sup>Green</sup>SLSANKITVLRGA  
 FVNVTQV<sup>Green</sup>TSWL<sup>Green</sup>AHSEVRTVESGALAVLSQLKNLDL<sup>Green</sup>SHNLSNFPWSDLRNL<sup>Green</sup>SALQLLKMNNHRLGSLPR  
 DALGALPDLRSLRINNRLR<sup>Green</sup>TLEPGTFDAL<sup>Green</sup>SALSHLQLYHNPFHCSCGLVWLQAWAASTRVSLPEPDSIA  
 CASPP<sup>Green</sup>ELQGV<sup>Green</sup>PVHRLPALPCAPPSVRL<sup>Green</sup>SAEPPPEAPGTPLRAGLAFMLHCVAEGHPTPRLQWQLQIPGGT  
 VVLVPPVLSKEEDGGDKVEDGEGDGEDLPTQTEAPTTPAPAWPAPPATPRFLALANGSLLVPLL<sup>Green</sup>SAKE  
 AGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEEPDAQVPTSERKATTKGRS<sup>Green</sup>NSVLPFKPEGKTKG  
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC<sup>Green</sup>GHGDPSTRYVSNHAFNQSSDLKPHVFELGVIA  
 LDVAEREARVQLTPLAARWGPGPDGASGARRPGRRLRLLYLCPAGGGTAVQWSRVEEGVNA<sup>Green</sup>YWFRGLRP  
 GTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPKPYRLILR  
 PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEEVPEEGLDEDVEQGDPSGDLQREESLAGCS  
 LVESQSKANQEEFEAGSEYS<sup>Green</sup>DRPLPLGAEAVNIAQEINGNYRQTAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

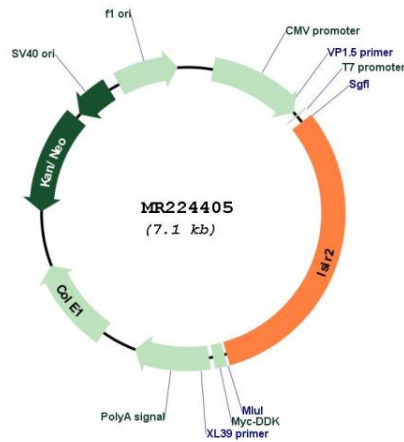
**UniProt ID:** [Q5RKR3](#)

**Cytogenetics:** 9 B

**MW:** 79.8 kDa

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

**Product images:**



Circular map for MR224405