

Product datasheet for **MR223578**

Islr2 (NM_001161535) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161535) 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:

>MR223578 representing NM_001161535
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
 GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
 AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC
 TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG
 CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG
 CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG
 GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC
 CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG
 TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG
 TCGCCTCGCCCCCTGAGCTGCAGGGCGTGCCCGTGCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA
 GCGTGCCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT
 GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT
 GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGATGGAGGAGATAAGGTGGAGGATGGAGAGGGTG
 ACGGAGATGAGGACCTGCCTACGCAGACTGAAGCGCCAACCCCAACTCCAGCACCTGCTTGGCCAGCGCC
 TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG
 GCAGGCATCTACACTTGTCTGTCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA
 CTGCAGCGGGGCGCCAAAACACGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGTCCCGACCTCTGA
 GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGGTCTGCCCTTCAAGCCTGAAGGCAAAAACCAAGGC
 CAAGGTCTTGCCGAGTCAGCGTCTTGGGAAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC
 AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA
 TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTTCATCGCG
 CTGGATGTAGCAGAGCGTGAGGCTCGGGTGCAGCTGACGCCTCTTGTGCGCGCTGGGGCCCTGGCCAG
 ATGGTGTAGCGGAGCGCGGGCGGGGAGGCGGCCACTGCGCCTACTCTATCTGTGCTCCTGCGGGGGG
 TGGCACGGCAGTTCAGTGGTCACGAGTGAAGAGGGGGTCAATGCCTACTGGTTTCGCGGCTGCGGCT
 GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACAGTGCAGGTGGTGTCTTCTACCA
 AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC
 CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG
 CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTTTCGATCCGCGTGCTTCTACCTTGA
 CTGAGAAAAGCTACCTGCTGCTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCT
 GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTTCAGAGAGAGGAAAGCCTGGCGGGTTGCTCA
 TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC
 CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223578 representing NM_001161535
 Red=Cloning site Green=Tags(s)

MGPF^{Red}GALCLAWALLGVVRACPEPCACVDKYAHQFADCA^{Green}YKELREVPEGLPANVTTL^{Green}SLSANKITVLRGA
 FVNVTQV^{Green}TSWL^{Green}AHSEVRTVESGALAVLSQLKNLDL^{Green}SHNLSNFPWSDLRNL^{Green}SALQLLKMNNHRLGSLPR
 DALGALPDLRSLRINNRLRTLEPGTFDAL^{Green}SALSHLQLYHNPFHCSCGLVWLQAWAASTRVSLPEPDSIA
 CASPP^{Green}ELQGV^{Green}PVHRLPALPCAPPSVRLSAEPPPEAPGTPLRAGLAFMLHCVAEGHPTPRLQWQLQIPGGT
 VVLVPPVLSKEEDGGDKVEDGEGDGEDLPTQTEAPTPTPAPAWPAPPATPRFLALANGSLLVPLL^{Green}SAKE
 AGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEE^{Green}PDAQVPTSERKATTKGRS^{Green}NSVLPFKPEGKTKG
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC^{Green}GHGDPSTRYVSNHAFNQSSDLKPHVFELGVIA
 LDVAEREARVQLTPLAARWGPGPDGASGARRPGRRLRL^{Green}LLYLC^{Green}PAGGGTAVQWSRVEEGVNA^{Green}YWFRGLRP
 GTNYSVCLALAGEACHVQVVFSTK^{Green}KELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPKPYRLILR
 PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEE^{Green}VPEEGLDEDVEQGDPSGDLQREESLAGCS
 LVESQSKANQEEFEAGSEYS^{Green}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_001161535

ORF Size: 2367 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 Size: 4138 bp

RefSeq ORF: 2370 bp

Locus ID: 320563

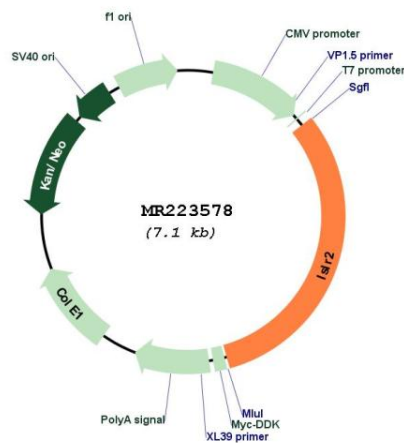
UniProt ID: [Q5RKR3](#)

Cytogenetics: 9 B

MW: 84.8 kDa

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

Product images:



Circular map for MR223578