

Product datasheet for **MG223578**

Islr2 (NM_001161535) Mouse Tagged ORF Clone

Product data:

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

>MG223578 representing NM_001161535
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
 GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
 AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC
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 GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTTCAGAGAGAGGAAAGCCTGGCGGGTTGCTCA
 TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

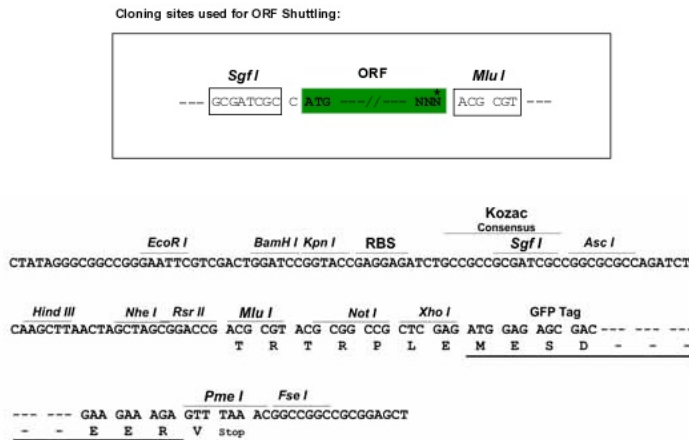
Protein Sequence: >MG223578 representing NM_001161535
Red=Cloning site Green=Tags(s)

MGPF~~GALCLAWALLGVVRACPEPCACVDKYAHQFAD~~CAYKELREVPEGLPANVTTL~~SL~~SANKITVLR~~RGA~~
 FVNVTQV~~TS~~LWLAHSEVRTVESGALAVLSQLKNLDL~~SHNLI~~SNFPWSDLRNL~~SALQ~~L~~L~~KMNHNLGSL~~PR~~
 DALGALPDL~~RSLRINNRLR~~TLEPGTFDAL~~SALSHL~~QLYHNPFHCSCGLVWLQAWA~~ASTRVSL~~PEPDSIA
 CASPELQGV~~PVHRLPALPCAPPSVRL~~SAEPPPEAPGTPLRAGLAFMLHCVAEGHPT~~RLQW~~LQIPGGT
 VVLVPPVLSKEEDGGKVEDGEGDGEDLPTQTEAPTPT~~PAPAWPAPPATPRFLALANGSLLV~~PLL~~SAKE~~
 AGIYTCRAHNELGTN~~STSLRVTVA~~AAGPPKHAPGTGEEPDAQVPTSERKATTKGRS~~NSVLP~~FKPEGKTKG
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC~~GHGDP~~SRYSN~~HAFNQ~~SSDLKPHVFELGVIA
 LDVAEREARVQLT~~PLAARWGPGPDGASGARRP~~GRRPLRL~~LLYLCP~~AGGGTAVQWSRVEEGV~~NAYWFR~~GLRP
 GTNYSVCLALAGEACHVQVVFSTK~~KELPSLLV~~IVTVSVFLLVLATVPLLGAAC~~CHLLAKHP~~GKPYRLILR
 PQAPDPMEKRIAADF~~PRASYLESEKSY~~PARGEAGGEEPEEVPEEGLDEDVEQGD~~PSGDLQ~~REESLAGCS
 LVESQSKANQEEFEAGSEYSDRLPLGAEAVNIAQEINGNYRQTAG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: [NM_001161535.1](#), [NP_001155007.1](#)

RefSeq Size: 4138 bp

RefSeq ORF: 2370 bp

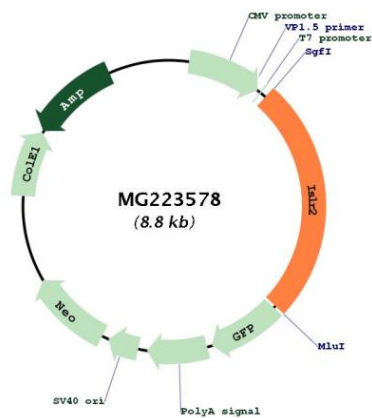
Locus ID: 320563

UniProt ID: [Q5RKR3](#)

Cytogenetics: 9 B

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

Product images:



Circular map for MG223578