

## Product datasheet for **MC218978**

### Isyna1 (NM\_023627) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Isyna1 (NM_023627) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Isyna1
Synonyms:	1300017C10Rik; AU018670
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218978 representing NM\_023627  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCCGCCGCCGAGATCCTCGTGGATAGCCCGGACGTGGTCTACAGCCCCGAAACCATCGAGGCGC  
 GCTACGAGTACCGGACAACGCGCGTCAGCCGCGAGGGCGCGTGTGCGGGTGCAGCCCAGGGCTACGCG  
 TTTACCTTCCGCACCGCCCGCAGGTGCCCGACTCGGGTCACTGTTGGTTCGGCTGGGGCGGGAACAAC  
 GGCTCCACGCTCACTGCTGCTGTTCTGGCCAATCGGCTGCGCCTAACCTGGCCCACGCGCACAGGTGCGA  
 AGGAGGCAAATAATTATGGATCGTTGACCCAGGCGGGCACCGTGAACCTGGGTCTGGATGAGAACGGCCG  
 GGAGGTGTTTGTGCCCTTCAGTGCCTGCTACCATGGTGGCCCCAACGACCTGGTGTGGTGGTGGTGG  
 GATATCTCGTCGCTGAACCTGGCCGAGGCCATGCGGCGCGCAGGTCTGGACTGCGGTCTGCAGGAAC  
 AGCTGTGGCCCCACATGGAGAGCTGCGTCCGCGGCCCTCAGTCTACATTCTGAGTTTCATCGTGCCAA  
 CCAGACAGCACGTGCGGACAACCTCATCCCTGGCACACGTGCCAACAGTTGGAGCAAATCCGAAAGGAC  
 ATTAGAGATTTCCGATCCAGTGCGGGATTGGATAAGGTATCGTGTGTGGACCCCAATACGGAGCGCT  
 TCTGCGAGGTGGTCCCAGGTGCGAATGACACAGCAGAAAACTTGTACATACTATCCAGCTTGGCCTGGA  
 GGTGTCACCGTCCACACTTTTTGCTGTGGCCAGCATCCTGGAGGACTGCGCCTTCTCAATGGATCCCCA  
 CAGAACACACTGGTACCCGGTGCCTGGAACCTGGCTTCGCAGCGCCATGTGTTTGTAGGTGGTGTGACT  
 TCAAGTCAGGGCAGACTAAGGTCAAGTCTGTCTGGTGGACTTCTCATCGGCTCTGGGCTCAAGACCAT  
 GTCCATCGTGAGCTATAACCACTGGGCAACAACGACGGGCAGAACCTGTCTGCACCGCTGCAGTTCCCG  
 TCCAAGGAGGTGACAAAGAGCAGTGTGGTGGACGACATGGTTCACAGCAACCATGTGCTCTACGCGCCTG  
 GAGAGCGGCCAGACCCTGTGTGGTATCAAATATGTGCCCTATGTTGGCGACAGCAAGCGTGCCTTGGG  
 CGAGTACACTCCGAGCTGATGCTGGTGGGACAAACACCTTGGTGTCCATAATACCTGCGAGGATTCCG  
 CTCCTGCGCGGCCCATCATGCTGGACCTAGTGTGCTCACAGAGCTGTGTCAGCGCGTGAAGTCTGCA  
 CAGACTCGACCCCGAGCCTCAGGGCTTCCACACAGTGTGCTCCCTGCTTAGCTTCTGTTAAGGCCCC  
 GCTTGTGCCCCCGGAGCCCTGTAGTGAATGCCCTTCCGCCAGCGCAGCTGTATCGAGAATATTTTC  
 AGGGCTTGCCTGGGGCTCCCGCCCAGAACCATGCTATTAGAGCACAAGATGGAGCGTCCAGGCCAG  
 GCATCAAGCCAGGAGAGGTGGTGGCCACCAGCCACTGCCTTGAAGAAAGAGCCACACCTGCCACCAA  
 TGGCTGCACCGCGATGCCAATGGCCACCCGACCGACCAACACCAAAGCTGTCCACTGCT**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_023627

**Insert Size:** 1674 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_023627.1](#), [NP\\_076116.1](#)

**RefSeq Size:** 1850 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 71780

**UniProt ID:** [Q9JHU9](#)

**Cytogenetics:** 8 B3.3

**Gene Summary:** Key enzyme in myo-inositol biosynthesis pathway that catalyzes the conversion of glucose 6-phosphate to 1-myo-inositol 1-phosphate in a NAD-dependent manner. Rate-limiting enzyme in the synthesis of all inositol-containing compounds (By similarity).[UniProtKB/Swiss-Prot Function]