

## Product datasheet for **RN210821**

### **Isyna1 (NM\_001013880) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Isyna1 (NM_001013880) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Isyna1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210821 representing NM\_001013880  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCTGCCGCCGAGATCCTGGTGGACAGCCCGGACGTGATCTTCGGCCCCGAAGCCATCGAGGCGC  
 GCTACGAGTACCGGACAACGCGCTCAGCCGCGAGGGCGCGTCTGCGGGTGGCGCCACGGCTACGCG  
 TTTACCTTCCGCACAGCCCGCAGGTGCCCGGCTTGGGGTCATGTTAGTCGGCTGGGGCGGGAACAAC  
 GGCTCCACGCTACTGCGGCTGTTCTGGCCAACCGGCTACGCCTGACCTGGCCCACGCGCACTGGTCGA  
 AGGAGGCAAATAATTAGGCTCGTTGACCCAGGCGGGCACCCTGAACTGGGTCTGGATGGGACGGCCG  
 GGAGGTGTTTGTGCCCTCAGTGCCTGCTACCCATGGTGGCACCCAACGACCTGGTGTTCGACGGCTGG  
 GATATCTCGTCGTAACCTGGCGGAGGCGATGCGGCGCGCAGGTCTGGACTGCGGTCTGCAGGAGC  
 AGCTGTGGCCCCACATGGAGAGCTGCGTCCACGGCCCTCAGTCTACATTCCTGAGTTTCATCGTGCCAA  
 CCAGACAGCACGTGCGGACAACCTCATCCCTGGCACACGCGCCCAACAGTTGGAGCAGATCCGAAAGGAT  
 ATTAGAGACTTCCGATCCAGTGCGGGATTGGACAAGGTATCGTGTGTGGACCGCAATACAGAGCGCT  
 TCTGTGAAGTGGTCCCGGGTCGCAATGACACAGCTGAAAACCTGCTGCGTACTATCCAGCTTGGCCTGGA  
 GGTTTACCATCCACACTTTTTGCTGTGGCCAGCATCCTGGAGGGCTGCGCCTTCTCAACGGGTCCCA  
 CAGAACACACTGGTACCCGGAGCCCTGGAGCTGGCTTCGCAGCGCCATGTGTTCTAGGTGGCGATGACT  
 TCAAGTCAGGGCAGACTAAGGTCAAATCTGTTCTGGTCGACTTCTCATTGGCTCTGGCCTCAAGACCAT  
 GTCCATCGTGAGCTATAACCACTTGGGCAACAACGATGGGCGAAGCTGTCTGCACCACTGCAGTTCCGC  
 TCCAAGGAAGTGACAAAGAGCAGTGTGGTGGATGACATGGTTCAGAGCAACCGTGTGCTACCGCCTG  
 GAGAGGAGCCAGATCACTGTGTGGTATCAAATATGTACCCTATGTTGGCGACAGCAAGCGTGCCTGGA  
 TGAGTACACCTCAGAGCTGATGCTGGTGGGACAAACACTTTGGTGTCCATAACACCTGCGAGGACTCG  
 CTGCTGCGCCGACCCATCATGCTGGACCTAGTGTGCTCACAGAGCTGTGTCAGCGTGTGAGCTTCTGCA  
 CAGACTCGGACCCAGAGCCTCAGGGCTTCCACCCAGTGTGTCGGTGTGCTCAGTTCTCTTTAAGGCACC  
 ACTTGTGCCCCCTGGCAGCCCTGTGGTGAATGCCCTCTCCGCCAGCGCAGCTGTATTGAGAATATTTTC  
 AGGGCTTGCCTGGGGCTCCACCCAGAACCATGCTGTTAGAGCACAAGATGGAGCGCCCTTTCCAG  
 GCATCAAGCCAGAAGAGGTGAAGGCCACCAGCCACTGCCTTGAAGAAAGAGTCCACACCGGCCACCAA  
 TGGCTGCACCGGTGATGCCAATGGGCACACACAGCCACCAACACCAGAGCTGTCCACCGCT**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_001013880
- 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\\_001013880.2](#), [NP\\_001013902.2](#)

**RefSeq Size:** 1881 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 290651

**UniProt ID:** [Q6AYK3](#)

**Cytogenetics:** 16p14

**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]