

## Product datasheet for **SC332214**

### ISYNA1 (NM\_001253389) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ISYNA1 (NM\_001253389) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ISYNA1  
**Synonyms:** INO1; INOS; IPS; IPS-1; IPS 1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332214 representing NM\_001253389.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGTGGCGCCCAACGACCTCGTGTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATG
CGGCGCGCGAAGGTGCTGGACTGGGGGCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCC
CGGCCTTCTGTTTACATCCCGAATTCATCGCGGCCAACCAGAGCGCGCGCGGACAACCTCATCCCA
GGCTCGCGTGCAGCAGCTGGAGCAGATCCGCAGGGACATCCGAGACTCCGGTCTAGCGCGGGGCTG
GACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTGTGAGGTGATCCAGGCCCTCAACGAC
ACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCCCTCCAGCTCTTCGCCGTG
GCCAGCATCCTGGAGGGCTGTGCCTTCCCTCAATGGGTCTCCGCAGAACACCCTGGTGCCCGGAGCTCTT
GAGCTCGCGTGGCAGCACCGGGTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAAGTCAAG
TCCGTGCTTGTGGACTTCTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCTG
GGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAAC
GTGGTGGACGACATGGTGCAGAGCAACCAGTGTCTATACGCCCGCGAAGAGCCTGACCACTGCGTG
GTCATCAAGTATGTGCCGTACGTGGGTGACAGCAAGCGCGCGTGGATGAGTATACCTCGGAGCTGATG
CTGGGCGGAACCAACACACTGGTGTGCACAACACGTGTGAGGACTCGTGTGGCCGACCCATCATG
CTGGACTAGCGTGTGACCGAGCTGTCCAGCGGTGAGCTTCTGACTGACATGGACCCGAGCCG
CAGACCTTCCACCCCGTGTCCCTGCTCAGCTTCTCTTCAAGCGCCACTAGTGCCGCGCGGAGC
CCGGTGGTCAATGCGCTTTTCCGCCAGCGAGCTGCATCGAGAACATCCTCAGGGCCTGCGTGGGGCTC
CCGCCACAGAACCACATGCTCCTGGAACAAAAATGGAGCGCCAGGGCCAGCCTCAAGCGAGTTGGA
CCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACC
GGTATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACCTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001253389  
**Insert Size:** 1293 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001253389.1</a>
<b>RefSeq Size:</b>	2131 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	51477
<b>UniProt ID:</b>	<a href="#">Q9NPH2</a>
<b>Cytogenetics:</b>	19p13.11
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways
<b>MW:</b>	47.1 kDa
<b>Gene Summary:</b>	<p>This gene encodes an inositol-3-phosphate synthase enzyme. The encoded protein plays a critical role in the myo-inositol biosynthesis pathway by catalyzing the rate-limiting conversion of glucose 6-phosphate to myo-inositol 1-phosphate. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 4. [provided by RefSeq, Nov 2011]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus compared to isoform 1.</p>