

## Product datasheet for **RR207931**

### Isy1 (NM\_001014188) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Isy1 (NM\_001014188) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Isy1  
**Synonyms:** Isy1-rab43; RGD1307688  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR207931 representing NM\_001014188  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCCGAAATGCAGAAAAGCCATGACTGCCCTAGCGAGATTCGGCAAGCTCAGCTGGAAGAGGGAA  
AGGTCAAGGAACGAGACCTTCTTGGCTCCGAGTGCACAGAACTGCCAAAAGCAGAGAAGTGGAGACG  
GCAGATCATTGGAGAGATCTCAAAAAAGTTGCTCAGATTCAGAATGCTGGTTTAGGGGAATTCGAATC  
CGAGACCTGAATGATGAAATTAACAAGCTGCTGAGGGAGAAAGGACACTGGGAGGTCCGGATCAAGGAGC  
TGGGCGGCCCTGACTATGGAAAAGTTGGCCCAAGATGCTGGATCACGAAGGTAAGAAGTCCCAGGAAA  
CCGAGGTTACAAGTACTTTGGGCGAGCGAAAGATTTGCCTGGTGTGAGAGAGCTATTCGAGAAAAGAGCCC  
CTTCTCCTCCCAGAAAGACACGTGCTGAGCTCATGAAGGCAATCGATTTGAGTACTATGGTTACCTGG  
ATGAAGATGATGGAGTGATTGTGCCCTTGGAGCAAGAGTACGAGAAGAGACTCAGGGCTGAGCTGGTGA  
AAAATGGAAGCAGAGAGAGAGGCTCGGCTGGCAAGGGGAGAAAAGGAAGAGGAGGAGGAGGAAGAGGAG  
ATCAACATCTATGCCGTACCGAGGAGGAGTCTGATGAGGAAGGCAGCCAGGAGAAGGCAGGGGAAGACG  
GTCAGCAGAAGTTCATTGCTCATGTTCCGGTGCCGTACAGCAGGAGATTGAGGAGGCCTTGTACGGAG  
GAAGAAAATGGAAGTCTCCAGAAATACGCAAGCGAGACTCTGCAGGCACAGAGTGAAGAGGCCAAGCGG  
CTCCTGGGGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR207931 representing NM\_001014188  
 Red=Cloning site Green=Tags(s)

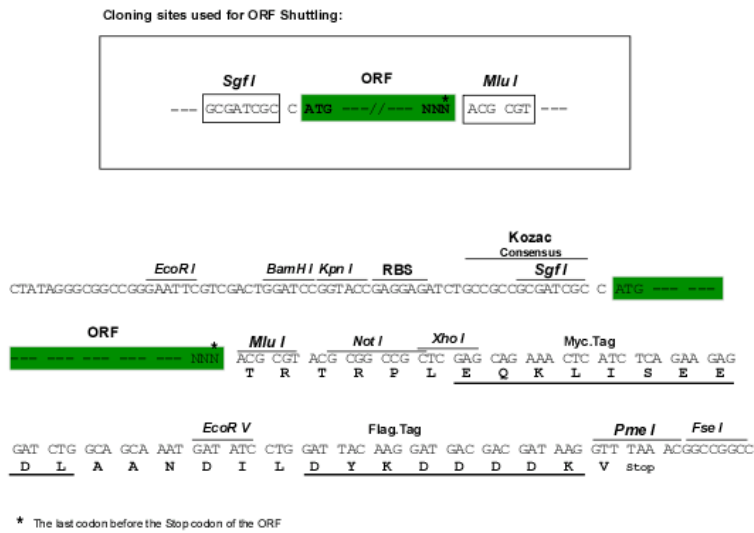
MARNAEKAMTALARFRQAQLEEGVKERRPFLASECTELPKAEKWRROIIGEISKVVAQIQNAGLGEFRI  
 RDLNDEINKLLREKGHWVRIKELGGPDYGVKVPKMLDHEGKEVPGNRGKYFGAAKDLPGVRELFEKEP  
 LPPPRKTRAEMLKAIIDFEYYGYLDEDDGVIVPLEQEYERLRAELVEKWAEREARLARGEKEEEEEEE  
 INIYAVTEEEESDEEGSQEKAGEDGQQKFAHVPVPSQQEIEEALVRRKKMELLQKYASETLLQAQSEEA  
 RLLGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

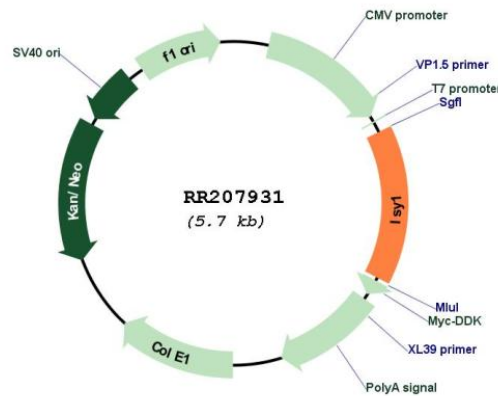
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001014188

**ORF Size:** 852 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001014188.1</a> , <a href="#">NP_001014210.1</a>
<b>RefSeq Size:</b>	1507 bp
<b>RefSeq ORF:</b>	855 bp
<b>Locus ID:</b>	362394
<b>UniProt ID:</b>	<a href="#">Q6AYB3</a>
<b>Cytogenetics:</b>	4q34
<b>MW:</b>	32.9 kDa
<b>Gene Summary:</b>	Involved in pre-mRNA splicing as component of the spliceosome.[UniProtKB/Swiss-Prot Function]