

## Product datasheet for **RR211931**

### Hand1 (NM\_021592) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Hand1 (NM\_021592) Rat Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Hand1  
Synonyms: eHand  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >RR211931 representing NM\_021592  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAACCTCGTGGGCAGCTACGCACACCATCACCACCATCACCCTCACACCCGCCGCACCCCATGCTGC  
ACGAACCTTCTCTTTGGTCCGGCCTCGCGTTGCCACCAGGAGCGGCCTTACTTCCAGAGCTGGCTGCT  
GAGCCCGCTGATGCTGCCCCAGATTTCCCTGCCGGCGGGCCACCACCTACCACCGCAGTAGCAGCGGCT  
GCCTATGGTCCCGATGCCAGGCCGAGTCAGAGCCAGGTCGGCTGGAGGCTCTTGAGGGCCGCTGCCCA  
GGCGAAAAGGTTCAAGACCCAAAAGGAGCGGAGGCGCACAGAGAGCATTAAACAGTGCCTTCGGGAGCT  
GCGTGAGTGATCCCAATGTGCCTGCGGACACCAAGCTCTCAAGATCAAGACTCTGCGCTGGCCACC  
AGCTACATCGCCTACTTGATGGACGTGCTGGCCAAGGATGCACAAGCAGGTGACCCCGAGGCCTTAAGG  
CTGAACTAAAAAGACGGATGGCGGTGCGGAAAGCAAGCGGAAAAGGGAGTCGCCTCAGCAGCACGAAGG  
CCTTCTCCTGCCCTGGGGCCAAGCGAGAAGAGGATTAAGGACGCACTGGCTGGCTCAGCAAGTCTGG  
GCGCTGGAGCTAAATCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211931 representing NM\_021592  
Red=Cloning site Green=Tags(s)

MNLVGSYAHHHHHHSHPPHPMLHEPFLFGPASRCHQERPYPQSWLLSPADAAPDFPAGGPPPTTAVAAA  
 AYGPDARPSQSPGRLEALGGRLPRKGSQPKKERRRTEINSFAELRECIPNVPADTKLSKIKTLRLAT  
 SYIAYLMDVLAQAGDPEAFKAELKKTDGGRESKRKRESPOQHEGLPPALGPSEKRIKGRWGWPQQVW  
 ALELNQ

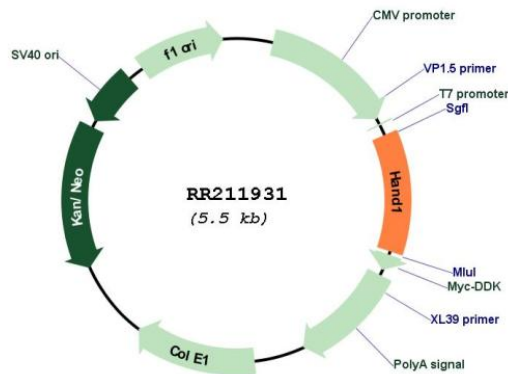
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_021592

**ORF Size:** 648 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_021592.2</a> , <a href="#">NP_067603.1</a>
<b>RefSeq Size:</b>	1102 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	59112
<b>UniProt ID:</b>	<a href="#">P97832</a>
<b>Cytogenetics:</b>	10q22
<b>MW:</b>	23.8 kDa
<b>Gene Summary:</b>	basic Helix-Loop-Helix (bHLH) transcription factor; essential for normal cardiac and extraembryonic development [RGD, Feb 2006]