

## Product datasheet for **MG202396**

### Hand1 (NM\_008213) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hand1 (NM_008213) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hand1
Synonyms:	bHLHa27; eHAND; Ehand1; Hxt; Th1; Thing1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202396 representing NM_008213 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCTCGTGGGCAGCTACGCACATCATCACCATCATCACCCTCACACCCGACGCACCCCATGCTCC  
ACGAACCCTTCTGTTTGGCCCGCCTCGCGTTGCCACCAGGAGCGCCTTACTTCCAGAGCTGGCTGCT  
GAGCCCGCTGATGCTGCCCCAGATTTCCCTGCCGGCGGCCACCACCTACCACCGCAGTAGCAGCGGT  
GCCTATGGTCCCAGTCCAGGCCGAGTCAGAGCCAGGTCGGCTGGAGGCTCTTGAAGCCGCCTGCCCA  
AACGAAAAGGCTCAGGACCAAGAAGGAGAGGAGACGCACAGAGAGCATTAAACAGCGCTTCGCGGAGCT  
GGTGAGTGCATCCCAATGTGCCCGCCGACCAAGCTCTCAAGATCAAGACTCTGCGCTGGCTACC  
AGTTACATCGCCTACTTGATGGACGTGCTGGCCAAGGATGCACAAGCAGGTGACCCCGAGGCTTCAAGG  
CTGAACTCAAAAAGCAGGATGGCGGTCGCGAAAAGCAAGCGGAAAAGGGAGTTGCCTCAGCAGCCGAAAAG  
CTTCCCTCCTGCCTCGGGGCCCGCGAGAAGAGGATTAAGGGCGCACCGGCTGGCTCAGCAAGTCTGG  
GCGCTGGAGCTAAACCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202396 representing NM\_008213  
 Red=Cloning site Green=Tags(s)

MNLVGSYAHHHHHHSHPTHPMLHEPFLFGPASRCHQERPYPQSWLLSPADAAPDFPAGGPPPTTAVAAA  
 AYGPDARPSQSPGRLEALGSRLPKRKGSGPKKERRRTEINSFAELRECIPNVPADTKLSKIKTLRLAT  
 SYIAYLMDVLAQAGDPEAFKAELKKTGGRESKRKRELPPQPESEFPASPGEKRIKGRWGWPQQVW  
 ALELNQ

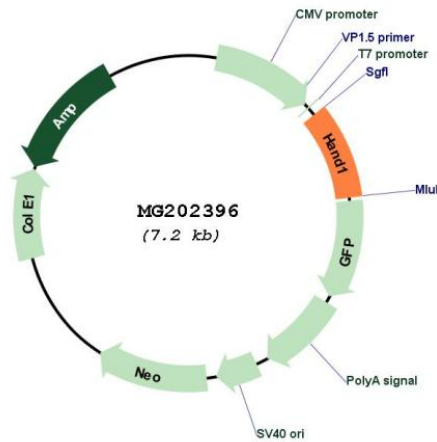
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008213

**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_008213.2</a> , <a href="#">NP_032239.1</a>
<b>RefSeq Size:</b>	1898 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	15110
<b>UniProt ID:</b>	<a href="#">Q64279</a>
<b>Cytogenetics:</b>	11 35.27 cM
<b>Gene Summary:</b>	Transcription factor that plays an essential role in both trophoblast-giant cells differentiation and in cardiac morphogenesis. In the adult, could be required for ongoing expression of cardiac-specific genes. Binds the DNA sequence 5'-NRTCTG-3' (non-canonical E-box). [UniProtKB/Swiss-Prot Function]