

Product datasheet for MR202396

Hand1 (NM_008213) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Hand1 (NM_008213) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Hand1
 Synonyms: bHLHa27; eHAND; Ehand1; Hxt; Th1; Thing1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR202396 representing NM_008213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCTCGTGGGCAGCTACGCACATCATCACCATCATCACCCTCACACCCGACGCACCCCATGCTCC
 ACGAACCTTTCCTGTTTGGCCCGGCTCGCGTTGCCACCAGGAGCGGCTTACTTCCAGAGCTGGCTGCT
 GAGCCCGGCTGATGCTGCCCCAGATTTCCCTGCCGGCGGGCCACCACCTACCACCGCAGTAGCAGCGGCT
 GCCTATGGTCCCAGTCCAGGCCGAGTCAGAGCCAGGTCGGCTGGAGGCTCTTGAAGCCGCCTGCCCA
 AACGAAAAGGCTCAGGACCAAGAAGGAGAGGAGACGCACAGAGAGCATTAAACAGCGGTTCCGGGAGCT
 GCGTGAGTGCATCCCAATGTGCCCGCCGACCAAGCTCTCAAGATCAAGACTCTGCGCTGGCTACC
 AGTTACATCGCCTACTTGATGGACGTGTGGCCAAAGGATGCACAAGCAGGTGACCCCGAGGCTTCAAGG
 CTGAACTCAAAAAGCAGGATGGCGGTCGCGAAAGCAAGCGGAAAAGGGAGTTGCCTCAGCAGCCGAAAAG
 CTTCCCTCCTGCCTCGGGGCCCGGCGAGAAGAGGATTAAGGGCGCACCGGCTGGCTCAGCAAGTCTGG
 GCGCTGGAGCTAAACCAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202396 representing NM_008213
 Red=Cloning site Green=Tags(s)

MNLVGSYAHHHHHHSHPTHPMLHEPFLFGPASRCHQERPYPQSWLLSPADAAPDFPAGGPPPTTAVAAA
 AYGPDARPSQSPGRLEALGSRLPKRKGSGPKKERRRTEINSFAELRECIPNVPADTKLSKIKTLRLAT
 SYIAYLMDVLAQAGDPEAFKAELKKTDGGRESKRKRELPPQPESEFPASPGEKRIKGRWGWPQQVW
 ALELNQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008213

ORF Size: 648 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_008213.1](#), [NM_008213.2](#), [NP_032239.1](#)

RefSeq Size: 1898 bp

RefSeq ORF: 651 bp

Locus ID: 15110

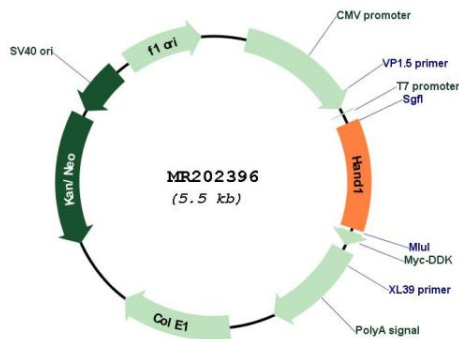
UniProt ID: [Q64279](#)

Cytogenetics: 11 35.27 cM

MW: 24.3 kDa

Gene Summary: 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]

Product images:



Circular map for MR202396