

Product datasheet for **RR215260**

Hand2 (NM_022696) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Hand2 (NM_022696) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Hand2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR215260 representing NM_022696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTCTGGTGGGGGGCTTTCCCCACCACCCCGTGGTGCACCATGAGGGCTACCCGTTCCGCCAGCCG
 CAGCCGCCGCTGCTGCTGCCGCCAGCCGCTGCAGTCACGAGGAGAACCCTATTTCCACGGCTGGCT
 TATTGGCCACCCGGAGATGTCGCCCCCGACTACAGCATGGCCCTGTCTACAGTCCCGAGTACGCCAGC
 GGTGCCCGGGCCTGGACCACTCCATTATGGGGAGTGCCGCCCGGTGCCGGCCTCCCGCCTGGGGG
 GGCCCGCCCGGTGAAGCGTCGGGGCACCGCAACCGCAAGGAGCGCGCAGGACTCAGAGCATCAACAG
 CGCCTTCGCCGAGCTGCGCGAGTGCATCCCAAGTGCCCGCCGACACCAAACTCTCCAAAATCAAGACT
 CTGCGCCTGGCCACCAGCTACATCGCCTACCTCATGGATCTGCTGGCCAAGGACGACCAGAACGGAGAGG
 CGGAGGCCTTCAAGGCGGAGATCAAGAAGACCGACGTGAAAGAGGAGAAGAGGAAGAAAGAGCTGAATGA
 AATCTTGAAGTACAGTGAGCAGCAACGACAAGAAAACCAAGGCCGGACAGGCTGGCCACAGCACGCTC
 TGGGCCCTGGAGCTCAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215260 representing NM_022696
 Red=Cloning site Green=Tags(s)

MSLVGGFPHHPVVHHEGYPFAAAAAAAAAASRCSHEENPYFHGWLIGHPEMSPPDYSMALSYSPEYAS
 GAAGLDHSHYGGVPPGAGPPGLGGPRPVKRRGTANRKERRRTQSINSAFAELRECIPNVPADTKLSKIKT
 LRLATSYIAYLMDLLAKDDQNGEAEAFKAEIKKTDVKEEKRRKELNEILKSTVSSNDKKTGRTGWPQHV
 WALELKQ

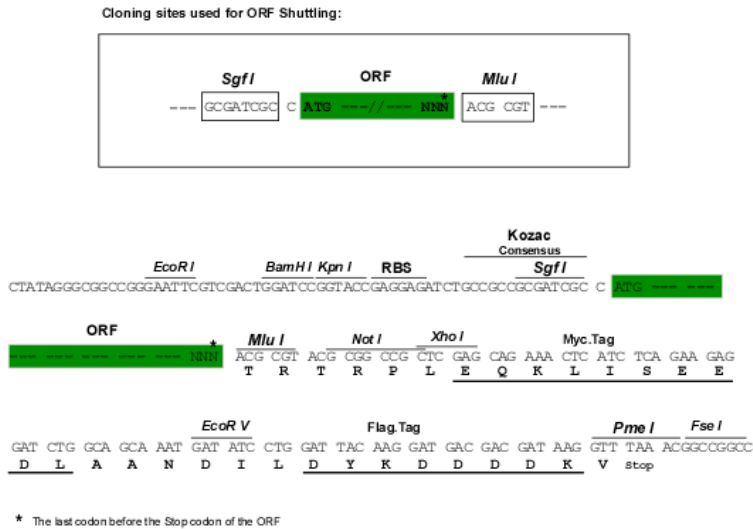
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022696

ORF Size: 651 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_022696.1](#), [NP_073187.1](#)

RefSeq Size: 715 bp

RefSeq ORF: 654 bp

Locus ID: 64637

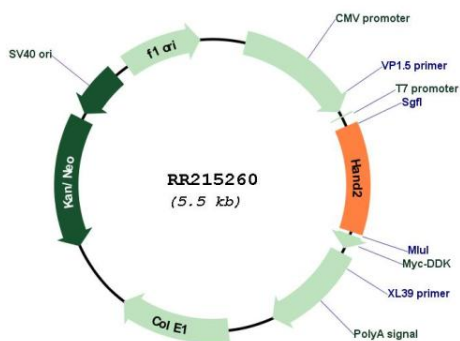
UniProt ID: [P61295](#)

Cytogenetics: 16p11

MW: 23.7 kDa

Gene Summary: acts in complex with Gata4 to activate transcription of cardiac specific genes [RGD, Feb 2006]

Product images:



Circular map for RR215260