

Product datasheet for **RR217402**

Hyou1 (NM_001034028) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hyou1 (NM_001034028) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hyou1
Synonyms: Cab140; Orp150
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217402 representing NM_001034028
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGCTACAGTAAGGAGGCAGAGGCCAAGGAGGCTACTCTGTTGGGCCTTGGTGGCTGTCCTCTTGG
CAGACCTGTTGGCACTGAGTGACACACTGGCTGTGATGTCTGTGGACCTGGCAGTGAATCCATGAAGGT
GGCCATTGTCAAGCCTGGAGTGGCCATGGAGATTGTATTGAACAAGGAATCTCGGAGGAAAACCTCCGGTG
ACTGTGACCTTGAAGGAAAACGAAAGGTTTCTAGGTGACAGTGCAGCTGGCATGGCCATCAAGAACC
AGGCTACGCTCCGTTATTTCCAGCACCTCCTTGAAAAGCAGGCAGATAAACCTCATGTGGCTCTTTACCG
GTCCCCTTTCCAGAACATGAGCTCAATGTTGACCCACAGAGGCAGACTGTGCGCTTCCAGATCAGTCCG
CAGCTGCAGTTCTCTCCGAGGAGGTGCTGGGCATGGTTCTCAACTACTCCCGTTCCCTGGCTGAAGATT
TTGCAGAACAACTATTAAGGATGCAGTGATCACCGTGCCAGCCTTTTTCAACCAGGCCGAGCGCCGAGC
TGTGCTGCAGGCTGCTCGTATGGCTGGCCTCAAGGTGCTGCAGCTCATCAATGACAACACTGCCACAGCC
CTCAGCTATGGTGTCTTCCGCCGAAAGATATCAATCCACTGCACAGAATATCATGTTCTATGACATGG
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ACAGCTACAGATCCGGGGCGTGGGATTTGACCGCACCTGGGTGGCCTGGAGATGGAGCTTCGGCTGCGA
GAGCACCTGGCTAAGCTCTTCAATGAGCAGCGCAAGGGCCAGAAAGCCAAAGGATGTTCCGGAAAAACCCC
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AGAATCTGACCACAGTAACTAAAAGGTGTGGGAGAGAGCTTCAAGAAATATCCTGACTATGAGTCCAA
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 GAGACCTGGTGGAGGACAGCCAGAGGAAGAGTCTACTTTACCAAACCTGGCAACACCAATTTCCAGCC
 TGTTTGGCGGTGGTACCTCATCAGATGCCAAAGAGAATGGTACTGATGCTGTACAGGAGGAGGAGGAG
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 GAGGATACCTCCCAGCCTCCACCCTCTGAGCCTAAGGGGGATGCAGCCCGTGAGGGAGAAACACCTGATG
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 CCCTCCAGCTCCCGAGGAAGAAAAAGCAGAAACCTGCCCGAAGCAGAAAATGGTGGAGGATAGGT
 GTGGAAGTGGCTGTCTTGACCTGCCAGACTTGCCAGAGGATGAGCTGGCCCATTCGCTGCAGAACTTG
 AGGACTTGACCCTGCGAGACCTTAAAAGCAGGAGAGGGAGAAAGCTGCCAACAGCTTAGAAGCTTTTAT
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 CTGGTGACCAAGAGGAAAAGTCAATCCACCTACAGGCCAGACTGAAGAGGCGAAGCCCATCTTAGAACC
 TGACAAAGAGACTGGTACAGAGCCAGCAGACTCTGAGCCTCTGGAATTAGGAGGTCTGGTGCAGAACT
 GAACAGGCAGAGCAGACAGCAGGGCAGAAGCGGCTTTGAAGAATGATGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGTTTAA

Protein Sequence:

>RR217402 representing NM_001034028
 Red=Cloning site Green=Tags(s)

MAATVRRQRPRLLCWALVAVLLADLLALSDTLAVMSVDLGSSEMKVAIVKPGVPMIEIVLNKESRRKTPV
 TVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPHEHLNVDPQRQTVRFQISP
 QLQF SPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATA
 LSYGVFRRKDIINSTAQNIMFYDMGSGSTVCTIVTYQTVKTKAEAGTQPQLQIRGVGFDRTLGGLEMLRLR
 EHLAKLFNEQRKQKAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEE
 LCADLFDVRVPGPVQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAAMGAV
 YQAAALSKAFKVPFVVRDAVIYPILVEFTREVEEPEGLRSLKHNKRVLSRMGPYPQRKVI TFNRYSHD
 FNFHINYDGLGFLGPEDLRVFGSQNLTTVCLKGVGESFKKYPDYESKGIAHFNLDESGVLSLDRVESVF
 ETLVEDSPEEESTLTKLGNTISSLFGGTTSSDAKENGTDVQEEEESPAEGSKDEPAEQGELKEEAEAPM
 EDTSQPPPSEPKGDAAREGETPDEKESGDKSEAQKPNKQGQAGPEGVPPAPEEKKQKPKARKQKMVEEIG
 VELAVLDLPDLPEDELAHSVQKLEDLTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREE
 ISGKLSATSTWLEDEFGATTVMKDKLAELRKLQGLFFRVEERRKWPERLSALDNLLNHSSIFLKGAR
 LIPEMDQIFTDVEMTTLEKVINDTWTWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKA
 FTKPRPRPKDKNGTRTEPPLNASAGDQEEKVIPPTGQTEEAKPILEPKETGTEPADSEPLELGGPGAES
 EQAEQTAGQKRPLKNDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

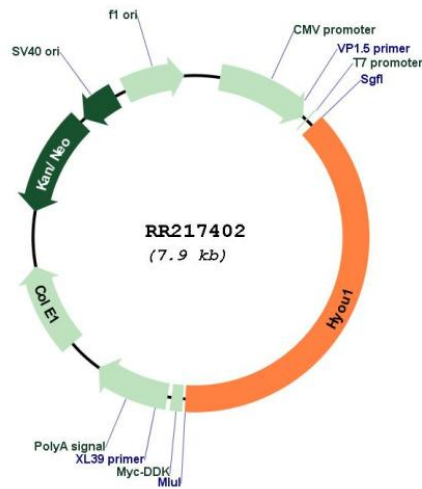
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001034028

ORF Size: 2994 bp

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| 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: | <ol style="list-style-type: none">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_001034028.1 , NP_001029200.1 |
| RefSeq Size: | 4346 bp |
| RefSeq ORF: | 2997 bp |
| Locus ID: | 192235 |
| Cytogenetics: | 8q22 |
| MW: | 111.2 kDa |
| Gene Summary: | a stress protein induced by hypoxia [RGD, Feb 2006] |