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# Product datasheet for RR200176

## Hyou1 (NM_138867) Rat Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Hyou1 (NM_138867) Rat Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Hyou1 |
| **Synonyms:** | Cab140; Orp150 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RR200176 representing NM_138867
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCTACAGTAAGGAGGCAGAGGCCAAGGAGGCTACTCTGTTGGGCCTTGGTGGCTGTCCTCTTGG
CAGACCTGTTGGCACTGAGTGACACACTGGCTGTGATGTCTGTGGACCTGGGCAGTGAATCCATGAAGGT
GGCCATTGTCAAGCCTGGAGTGCCCATGGAGATTGTATTGAACAAGGAATCTCGGAGGAAAACTCCGGTG
ACTGTGACCTTGAAGGAAAACGAAAGGTTTCTAGGTGACAGTGCAGCTGGCATGGCCATCAAGAACCCAA
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CAGCTGCAGTTCTCTCCCGAGGAGGTGCTGGGCATGGTTCTCAACTACTCCCGTTCCCTGGCTGAAGATT
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TTCAACTTTCACATCAACTACGGTGACCTGGGCTTCCTGGGGCCTGAGGATCTTCGGGTATTTGGCTCCC
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GAACAGGCAGAGCAGACAGCAGGGCAGAAGCGGCCTTTGAAGAATGATGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200176 representing NM_138867
Red=Cloning site Green=Tags(s)

MAATVRRQRPRRLLCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPV
TVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPEHELNVDPQRQTVRFQISP
QLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATA
LSYGVFRRKDINSTAQNIMFYDMGSGSTVCTIVTYQTVKTKEAGTQPQLQIRGVGFDRTLGGLEMELRLR
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LCADLFDRVPGPVQQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAV
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FNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVGESFKKYPDYESKGIKAHFNLDESGVLSLDRVESVF
ETLVEDSPEEESTLTKLGNTISSLFGGGTSSDAKENGTDAVQEEEESPAEGSKDEPAEQGELKEEAEAPM
EDTSQPPPSEPKGDAAREGETPDEKESGDKSEAQKPNEKGQAGPEGVPPAPEEEKKQKPARKQKMVEEIG
VELAVLDLPDLPEDELAHSVQKLEDLTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREE
ISGKLSATSTWLEDEGFGATTVMLKDKLAELRKLCQGLFFRVEERRKWPERLSALDNLLNHSSIFLKGAR
LIPEMDQIFTDVEMTTLEKVINDTWTWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKAK
FTKPRPRPKDKNGTRTEPPLNASAGDQEEKVIPPTGQTEEAKPILEPDKETGTEPADSEPLELGGPGAES
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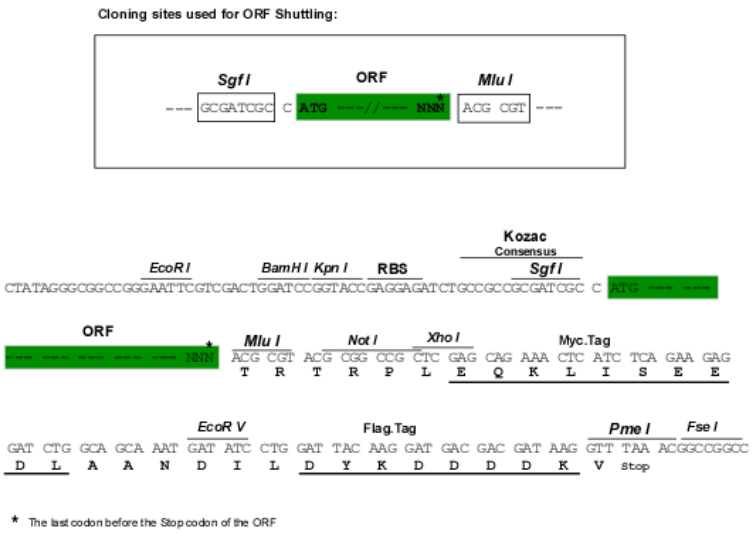
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

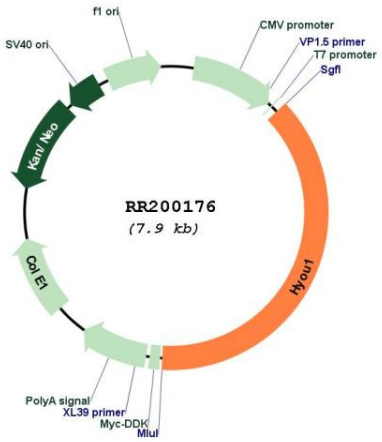
**Cloning Scheme:**




| | |
|---|---|
| **ACCN:** | NM_138867 |
| **ORF Size:** | 2994 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_138867.2, NP_620222.2 |
| **RefSeq Size:** | 4498 bp |

| | |
|---|---|
| **RefSeq ORF:** | 2997 bp |
| **Locus ID:** | 192235 |
| **UniProt ID:** | Q63617 |
| **Cytogenetics:** | 8q22 |
| **MW:** | 111.2 kDa |
| **Gene Summary:** | a stress protein induced by hypoxia [RGD, Feb 2006] |

## Product images:




Circular map for RR200176