

Product datasheet for MR211417

Hyou1 (NM_021395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyou1 (NM_021395) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hyou1
Synonyms:	Al415631; Cab140; CBP-140; Grp170; Orp150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211417 representing NM_021395 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCACAGTAAGAAGGCAGAGGCCAAGGAGGCTACTCTGTTGGGCCTTGGTGGCTGTCTCTTGG
CAGACCTGTTGGCACTGAGCGACACATTGGCTGTGATGTCTGTAGACCTGGGCAGTGAATCCATGAAGGT
GGCCATTGTCAAGCCTGGAGTGGCCATGGAGATTGTATTGAACAAGGAATCTCGGAGGAAAACCTCAGTG
ACTGTGACCTTGAAGAAAATGAAAGGTTTTTAGGTGATAGTGCAGCCGGCATGGCCATCAAGAACC
AGGCTACGCTCCGTTATTTCCAGCACCTCCTTGGAAAACAGGCGGATAACCCTCATGTGGCCCTTACCG
GTCCCGTTTTCCAGAACATGAGCTAATTGTTGACCCACAGAGGCAGACTGTGCGCTTCCAGATCAGTCCG
CAGCTGCAGTTCTCTCCCGAGGAGGTAAGTGGCATGGTTCTGAACTACTCCCGTTCTTGGCTGAAGATT
TTGCTGAACAACCATTAAAGGATGCAGTGATCACCGTGCCAGCCTTTTTCAACCAGGCTGAGCGCCGAGC
TGTGCTGCAGGCTGCTCGGATGGCTGGCCTCAAGGTGCTGCAGCTCATCAATGACAACACTGCCACAGCC
CTCAGTACGGTGTCTTCCGCGGAAAGATATCAATCCACTGCACAGAAGCTCATGTTCTATGACATGG
GCTCGGCAGCACTGTGTGCACCATCGTCACCTACCAGACAGTGAAGACTAAGGAGGCTGGGATGCAACC
ACAGCTGCAGATCCGGGGCGTGGGATTTGACCGCACCTGGGTGGCCTGGAGATGGAGCTTCGGCTTCGA
GAACACCTGGCTAAGCTTTCAATGAGCAGCGCAAGGGCCAGAAAGCCAAGGATGTTCCGGAAAACCC
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GGCACAGATTGAGGGCTTGGATGATGTGGACTTCAAGGCCAAAGTAAGTAACTCGGGTGAATTCGAGGAG
CTGTGTGCAGATTTGTTTACCCTGTGCCTGGACCTGTGCAGCAGGCCTTGACAGTGCAGAGATGAGCT
TGGATCAAATTGAGCAGGTGATCCTGGTGGGCGGGGCACTCGTGTTCCTCAAAGTTCAAGAAGTGTCT
CAAGGCCGTGGCAAGGAGGAAC TAGGAAAGAACATCAATGCGGACGAAGCTGCTGCCATGGGGCTGTG
TACCAGGCAGCGCGCTCAGCAAGGCCTTCAAAGTGAAGCCATTTGTTGTGCGGGATGCTGTCATTTACC
CAATCCTGGTGGAGTTCACAAGGGAGGTGGAGGAGGAGCCTGGGCTCCGAAGCCTGAAACACAATAAGCG
TGTGCTCTTCCCGAATGGGGCCCTACCCTCAGCGCAAAGTCAACCTTTAACCGCTACAGCCATGAT



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TTCAACTTCCACATCAACTACGGTGACCTGGGCTTCTGGGGCCTGAGGATCTTCGGGTATTTGGCTCCC
 AGAATCTGACCACAGTAAACTAAAAGCGTGGGAGAGAGCTTCAAGAAATATCCCGACTATGAGTCCAA
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 AAAAAGAGAGTGGGGACAAGCCTGAGGCCAGAAGCCCAATGAGAAGGGGCAAGCAGGCCCTGAGGGTGC
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 CTGGTGACCAAGAGGAGAAGGTCAATCCACCTGCAGGCCAGACTGAAGAGGCGAAACCCATTTAGAAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence:

>MR211417 representing NM_021395
 Red=Cloning site Green=Tags(s)

MAATVRRQRPRLLCWALVAVLLADLLALSDTLAVMSVDLGSSEMKVAIVKPGVPMIEIVLNKESRRKTPV
 TVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPPEHELIVDPQRQTVRFQISP
 QLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATA
 LSYGVFRRKIDINSTAQNVFYDMGSGSTVCTIVTYQTVKKEAGMQPQLQIRGVGFDRTLGGLEMLRLR
 EHLAKLFNEQRKGQKAKDVRENPRAMAKLLREANRLKTVL SANADHMAQIEGLMDDVDFKAKVTRVEFEE
 LCADLFDRVPGPVQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAV
 YQAAALSKAFKVKPFVVRDAVIYPILVEFTREVEEPEGLRSLKHNKRVLFSRMGYPYQKRVITFNRYSHD
 FNFHINYDGLGFLGPEDLRVFGSQNLTTVKLKGVESFKKYPDYESKGIKAHFNLDSEGLSLDRVESVF
 ETLVEDSPEEESTLTKLGNTISSLFGGGTSSDAKENGTDVQEEEESPAEGSKDEPAEQGELKEEAEPPE
 EETSQPPPSEPKGDAAREGEKPDEKESGDKPEAQKPNKQGQAGPEGAAPAEEDKKPKPARKQKMVEEIG
 VELAVLDL PDLPEDELARSVQKLEELTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREE
 ISGKLSATSTWLEDEFGATTVMKDKLAELRKLQGLFFRVEERRKWPERLSALDNLLNHSSIFLKGAR
 LIPEMDQVFTEVEMTTLEKVINDTWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKA
 FTKPRPRPKDKNGTRAEPPLNASAGDQEEKVIPPAGQTEEAKPILEPDKEETGTEPADSEPLELGGPGAG
 PEQEEQSAGQKRPSKNDEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9027_h03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_021395

ORF Size: 2997 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_021395.4](#), [NP_067370.3](#)

RefSeq Size: 4432 bp

RefSeq ORF: 3000 bp

Locus ID: 12282

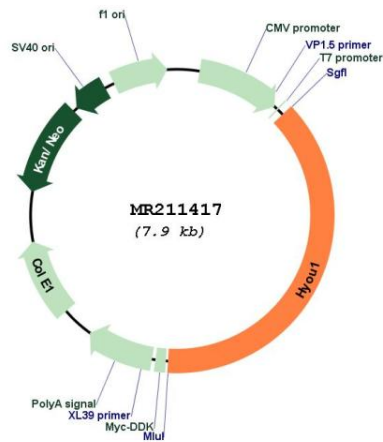
UniProt ID: [Q9JKR6](#)

Cytogenetics: 9 A5.2

MW: 111.6 kDa

Gene Summary: Has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation. May play a role as a molecular chaperone and participate in protein folding (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211417