

Product datasheet for **MR208104**

Hyou1 (BC019785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyou1 (BC019785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hyou1
Synonyms:	Grp170, CBP-140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208104 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCACAGTAAGAAGGCAGAGGCCAAGGAGGCTACTCTGTGGGCCTTGGTGGCTGTCTCTTGG
 CAGACCTGTTGGCACTGAGCGACACATTGGCTGTGATGTCTGTAGACCTGGGCAGTGAATCCATGAAGT
 GGCCATTGTCAAGCCTGGAGTGCCCATGGAGATTGATTGAACAAGGAATCTCGGAGGAAAACTCCAGTG
 ACTGTGACCTTGAAGAAAAATGAAAGGTTTTTAGGTGATAGTGCAGCCGGCATGGCCATCAAGAACC
 AGGCTACGCTCCGTTATTTCCAGCACCTCTTGGAAAACAGGCGGATAACCCTCATGTGGCCCTTTACCG
 GTCCCCTTCCAGAACATGAGCTAATTGTTGACCCACAGAGGCAGACTGTGCGCTTCCAGATCAGTCCG
 CAGCTGCAGTTCTCTCCGAGGAGTACTGGGCATGGTTCTGAAGTACTCCGTTCTTGGCTGAAGATT
 TTGCTGAACAACCCATTAAGGATGCAGTATCACCGTCCAGCCTTTTTCAACCAGGCTGAGCGCCGAGC
 TGTGCTGCAGGCTGCTCGGATGGCTGGCCTCAAGGTGCTGCAGTCAATGACAACACTGCCACAGCC
 CTAGCTACGGTGTCTTCCGCCGAAAGATATCAATTCCACTGCACAGAAGTCAATGTTCTATGACATGG
 GCTCGGGCAGCACTGTGTGCACCATCGTCACCTACCAGACAGTGAAGACTAAGGAGGCTGGGATGCAACC
 ACAGCTGCAGATCCGGGGCGTGGGATTTGACCGCACCTGGTGGCCTGGAGATGGAGCTTCGGCTTCGA
 GAACACCTGGCTAAGCTCTTCAATGAGCAGCGCAAGGGCCAGAAAGCCAAGGATGTTCCGGAAAAACCCC
 GGGCCATGGCCAAACTGCTTCGGGAAGCCAACCGGCTTAAACCGTCTGAGTGCCAACGCTGATCACAT
 GGCACAGATTGAGGGCTTGATGGATGATGTGGACTTCAAGGCCAAAGTAACTCGGTGGAATTCGAGGAG
 CTGTGTGCAGATTTGTTGACCGTGTGCCTGGACCTGTGCAGCAGGCTTGCAGAGTGCAGAGATGAGT
 TGGATCAAATGAGCAGGTGATCTGGTGGCGGGCCACTCGTGTTCCAAAGTTCAAGAAGTGTGCTGCT
 CAAGGCCGTGGCAAGGAGGAAGTAAAGAAAGCAATCAATGCGGACGAAGCTGCTGCCATGGGGCTGTG
 TACCAGGCAGCGCGCTCAGCAAGGCCTTCAAAGTGAAGCCATTTGTTGTGCGGGATGCTGTCAATTTACC
 CAATCCTGGTGGAGTTCACAAGGAGGTGGAGGAGGAGCCTGGGCTCCGAAGCCTGAAACACAATAAGCG
 TGTGCTCTTCCCGAATGGGGCCCTACCCTCAGCGCAAAGTCAACCTTTAACCGCTACAGCCATGAT
 TTCAACTCCACATCACTACGGGATTTGGCTCCAGAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208104 protein sequence
 Red=Cloning site Green=Tags(s)

MAATVRRQRPRLLCWALVAVLLADLLALSDTLAVMSVDLGSSEMKVAIVKPGVPMIIVLNKESRRKTPV
 TVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPHEHELIVDPQRQTVRFQISP
 QLQF SPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATA
 LSYGVFRRKINSTAQNVFYDMGSGSTVCTIVTYQTVKTKAAGMQPQLQIRGVGFDRTLGGLEMLRLR
 EHLAKLFNEQRKGQKAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAVTRVEFEE
 LCADLFDVRVPGPVQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAV
 YQAAALSKAFKVKPFVVRDAVIYPILVEFTREVEEPLRSLKHNKRVLFSRMGPYPQRKVIITFNRYSHD
 FNFHINYGLAPRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: BC019785

ORF Size: 1512 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: [BC019785](#), [AAH19785](#)

RefSeq Size: 2027 bp

RefSeq ORF: 1514 bp

Locus ID: 12282

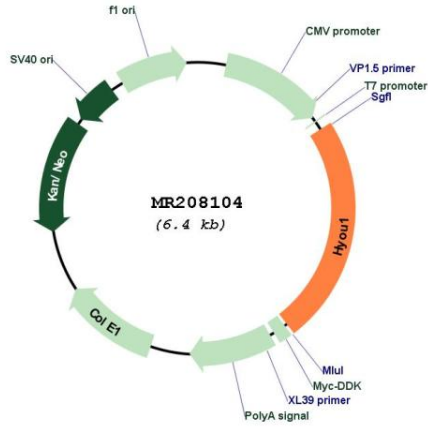
Cytogenetics: 9 A5.2

MW: 56.6 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 MR208104