

Product datasheet for **MG208104**

Hyou1 (BC019785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyou1 (BC019785) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hyou1
Synonyms:	Grp170, CBP-140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208104 representing BC019785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCACAGTAAGAAGGCAGAGGCCAAGGAGGCTACTCTGTTGGCCTTGGTGGCTGTCTCTTGG
 CAGACCTGTTGGCACTGAGCGACACATTGGCTGTGATGTCTGTAGACCTGGGCAGTGAATCCATGAAGGT
 GGCCATTGTCAAGCCTGGAGTGCCCATGGAGATTGTATTGAACAAGGAATCTCGGAGGAAAACTCCAGTG
 ACTGTGACCTTGAAGAAAAATGAAAGGTTTTTAGGTGATAGTGCAGCCGGCATGGCCATCAAGAACCCAA
 AGGCTACGCTCCGTTATTTCCAGCACCTCTTGGAAAACAGGCGGATAACCCTCATGTGGCCCTTTACCG
 GTCCCCTTCCAGAACATGAGCTAATTGTTGACCCACAGAGGCAGACTGTGCGCTTCCAGATCAGTCCG
 CAGCTGCAGTTCTCTCCGAGGAGGACTGGGCATGGTTCTGAACTACTCCGTTCTTGGCTGAAGATT
 TTGCTGAACAACCCATTAAGGATGCAGTGATCACCGTCCAGCCTTTTTCAACCAGGCTGAGCGCCGAGC
 TGTGCTGCAGGCTGCTCGGATGGCTGGCCTCAAGGTGCTGCAGCTCATCAATGACAACACTGCCACAGCC
 CTAGCTACGGTGTCTTCCGCCGAAAGATATCAATTCCACTGCACAGAACGTCATGTTCTATGACATGG
 GCTCGGGCAGCACTGTGTGCACCATCGTCACCTACCAGACAGTGAAGACTAAGGAGGCTGGGATGCAACC
 ACAGCTGCAGATCCGGGGCGTGGGATTTGACCGCACCTGGTGGCCTGGAGATGGAGCTTCGGCTTCGA
 GAACACCTGGCTAAGCTCTTCAATGAGCAGCGCAAGGGCCAGAAAGCCAAGGATGTTCCGGAAAACCCCC
 GGGCCATGGCCAAACTGCTTCGGGAAGCCAACCGGCTTAAACCCTCTGAGTGCCAACGCTGATCACAT
 GGCACAGATTGAGGGCTTGATGGATGATGTGGACTTCAAGGCCAAAGTAACTCGGTGGAATTCGAGGAG
 CTGTGTGCAGATTTGTTGACCGTGTGCCTGGACCTGTGCAGCAGGCTTGCAGAGTGCAGAGATGAGCT
 TGGATCAAATTGAGCAGGTGATCCTGGTGGCGGGCCACTCGTGTCCCAAAGTTCAAGAAGTGCCTGCT
 CAAGGCCGTGGCAAGGAGGAACACTAGGAAAGAACATCAATGCGGACGAAGCTGCTGCCATGGGGCTGTG
 TACCAGGCAGCGCGCTCAGCAAGGCCTTCAAAGTGAAGCCATTTGTTGTGCGGGATGCTGTCAATTTACC
 CAATCCTGGTGGAGTTCACAAGGGAGGTGGAGGAGGAGCCTGGGCTCCGAAGCCTGAAACACAATAAGCG
 TGTGCTCTTCCCGAATGGGGCCCTACCCTCAGCGCAAAGTCATCACCTTTAACCGCTACAGCCATGAT
 TTCAACTCCACATCAACTACGGGTATTTGGCTCCAGAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208104 representing BC019785
 Red=Cloning site Green=Tags(s)

MAATVRRQRPRLLCWALVAVLLADLLALSDTLAVMSVDLGSSEMKVAIVKPGVPMIIVLNKESRRKTPV
 TVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPHEHELIVDPQRQTVRFQISP
 QLQFSPPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLLQINDNTATA
 LSYGVFRRKDIINSTAQNVMFYDMGSGSTVCTIVTYQTVKKEAGMQPQLQIRGVGFDRTLGGLEMLRLR
 EHLAKLFNEQRKGQKAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEE
 LCADLFDRVPGPVQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAV
 YQAAALSKAFKVKPFVVRDAVIYPILVEFTREVEEPEGLRSLKHNKRVLSRMGPYPQRKIVITFNRYSHD
 FNFHINYGLAPRI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC019785

ORF Size: 1514 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

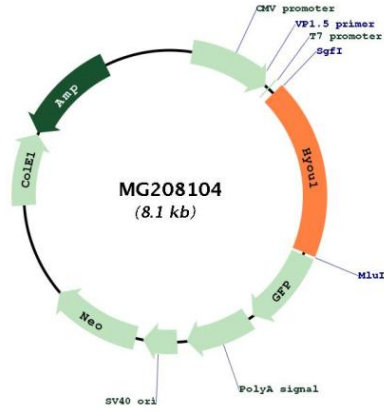
Locus ID: 12282

Cytogenetics: 9 A5.2

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 MG208104