

Product datasheet for **MG208042**

Bace1 (NM_011792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bace1 (NM_011792) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bace1
Synonyms:	ASP2; Bace; C76936
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208042 representing NM_011792
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCAGCGCTGCACTGGCTCTGCTATGGGTGGGCTCGGGAATGCTGCCTGCCAGGGAACCCATC
 TCGGCATCCGGCTGCCCTTCGCAGCGGCTGGCAGGGCCACCCCTGGGCTGAGGCTGCCCGGGAGAC
 CGACGAGGAATCGGAGGAGCCTGGCCGGAGAGGACGCTTTGTGGAGATGGTGACAACTGAGGGGAAAG
 TCCGGCCAGGGCTACTATGTGGAGATGACCGTAGGCAGCCCCACAGACGCTCAACATCCTGGTGACA
 CGGGCAGTAGTAACCTTGCAGTGGGGCTGCCACACCCCTTCTGCATCGCTACTACCAGAGGACGCT
 GTCCAGCACATATCGAGACCTCCGAAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAGGGGAA
 CTGGGCACCGACCTGGTGAAGCATCCCTCATGGCCCAACGTCCTGTGCGTGCCAACTTGTGCCATCA
 CTGAATCGGACAAGTTCTTCATCAATGGTCCAACCTGGGAGGGCATCCTAGGGCTGGCCTATGCTGAGAT
 TGCCAGGCCCAGACTCTTTGGAGCCCTCTTTGACTCCCTGGTGAAGCAGACCACATCCCAACATC
 TTTTCCCTGCAGCTCTGTGGCGCTGGCTTCCCCCTCAACCCAGACCGAGGCACTGGCCTCGGTGGGAGGGA
 GCATGATCATTGGTGGTATCGACCACTCGCTATACACGGGCACTCTCTGGTACACACCCATCCGGCGGGA
 GTGGTATTATGAAGTGATCATTGTACGTGTGAAATCAATGGTCAAGATCTCAAGATGGACTGCAAGGAG
 TACAACACGACAAGAGCATTGTGGACAGTGGGACCACCAACCTTCGCTTGCCAAAGAAAGTATTTGAAG
 CTGCCGTCAAGTCCATCAAGGCAGCCTCCTCGACGGAGAAGTCCCGGATGGCTTTTGGCTAGGGGAGCA
 GCTGGTGTGCTGGCAAGCAGGCACGACCCCTTGGAAACATTTCCAGTCATTTCACTTTACCTCATGGGT
 GAAGTCACCAATCAGTCTTCCGCATCACCATCCTTCTCAGCAATACCTACGGCCGGTGGAGGACGTGG
 CCACGTCCTCAAGACGACTGTTACAAGTTCGCTGTCTCACAGTCATCCACGGGCACTGTTATGGGAGCCGT
 CATCATGGAAAGGTTTCTATGTCGCTTCGATCGAGCCGAAAGGGAATTGGCTTTGCTGTACAGCGCTTGC
 CATGTGCACGATGAGTTCAGGACGGCGGCAAGTGAAGGTCGTTTGTACGGCAGACATGGAAGACTGTG
 GCTACAACATTCCCAGACAGATGAGTCAACACTTATGACCATAGCCTATGTCATGGCGCCATCTGCGC
 CCTCTTATGTTGCCACTCTGCCTCATGGTATGTCAGTGGCGCTGCCTGCCTGCGCCACCAGCAC
 GATGACTTTGCTGATGACATCTCCCTGCTCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208042 representing NM_011792
 Red=Cloning site Green=Tags(s)

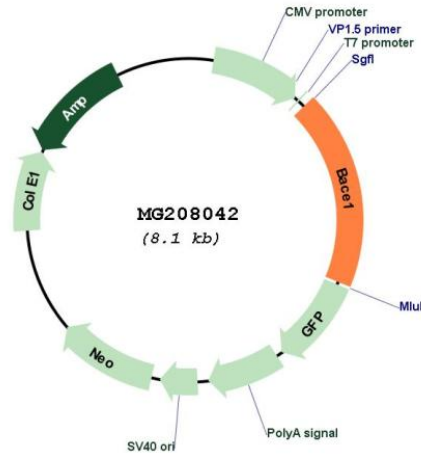
MAPALHWLLLWVSGMLPAQGTHLGIPLRSLGAPPLGLRPLPRETDEESEEPGRRGSFVEMVDNLRGK
 SGQGYVEMTVGSPPQTLNILDVTGSSNFVGAAPHPFLHRYRQLSSTYRDLRKGVVYVPTQKWEWE
 LGTDLVSIHPGNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLPEFFDSLKQTHIPNI
 FSLQLCGAGFPLNQTEALASVGGSMIIGGIDHSLYTGSLWYTPIRREWYEVIIIVRVEINGQDLKMDCKE
 YNYDKSIVDSGTTNLRPLPKVFEEAAVKSIIKAASSTEFKFDGFWLGEQLVCWQAGTTPWNIIFVVISLYLMG
 EVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAVSQSSTGVMGAVIMEGFYVVFDRARKRIGFAVSAC
 HVHDEFRTAAVEGPFVTADMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQH
 DDFADDISLLK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_011792

ORF Size: 1503 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_011792.6](#)

RefSeq Size: 4101 bp

RefSeq ORF: 1506 bp

Locus ID: 23821

UniProt ID: [P56818](#)

Cytogenetics: 9 A5.2

Gene Summary: This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients. Homozygous knockout mice for this gene exhibit a wide range of nervous system defects, growth retardation, metabolic abnormalities, and increased neonatal lethality. [provided by RefSeq, Nov 2015]