

Product datasheet for **MR208042**

Bace1 (NM_011792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bace1 (NM_011792) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bace1
Synonyms:	ASP2; Bace; C76936
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208042 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCCCAGCGCTGCACTGGCTCTGCTATGGGTGGGCTCGGGAATGCTGCCTGCCAGGGAACCCATC
 TCGGCATCCGGCTGCCCTTCGACGCGGCTGGCAGGGCCACCCCTGGGCTGAGGCTGCCCGGGAGAC
 CGACGAGGAATCGGAGGAGCCTGGCCGGAGAGGACGCTTTGTGGAGATGGTGGACAACCTGAGGGGAAAG
 TCCGGCCAGGGCTACTATGTGGAGATGACCGTAGGCAGCCCCACAGACGCTCAACATCCTGGTGGACA
 CGGGCAGTAGTAACCTTTCAGTGGGGGCTGCCACACCCCTTCTGCATCGCTACTACCAGAGGACGCT
 GTCCAGCACATATCGAGACCTCCGAAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAGGGGAA
 CTGGGCACCGACCTGGTGGAGCATCCCTCATGGCCCAACGTCCTGTGCGTGCCAACATTGCTGCCATCA
 CTGAATCGGACAAGTTCTTCATCAATGGTTCACCTGGGAGGGCATCCTAGGGCTGGCCTATGCTGAGAT
 TGCCAGGCCCGACGACTCTTTGGAGCCCTCTTTGACTCCCTGGTGAAGCAGACCACATCCCAACATC
 TTTTCCCTGCAGCTCTGTGGCGCTGGCTTCCCCCTCAACCAGACCGAGGCACTGGCCTCGGTGGGAGGGA
 GCATGATCATTGGTGGTATCGACCACTCGCTATACACGGGCACTCTCTGGTACACACCCATCCGGCGGGA
 GTGGTATTATGAAGTATCATTGTACGTGTGAAATCAATGGTCAAGATCTCAAGATGGACTGCAAGGAG
 TACAACACGACAAGAGCATTGTGGACAGTGGGACCACCAACCTTCGCTTGCCTCAAGAAAGTATTTGAAG
 CTGCCGTCAAGTCCATCAAGGCAGCCTCCTCGACGGAGAAGTCCCGGATGGCTTTTGGCTAGGGGAGCA
 GCTGGTGTGCTGGCAAGCAGGCACGACCCCTTGGAAACATTTCCAGTCATTTCACTTTACCTCATGGGT
 GAAGTACCAATCAGTCCCTCCGCATCACCATCCTTCTCAGCAATACCTACGGCCGGTGGAGGACGTGG
 CCACGTCCCAAGACGACTGTTACAAGTTCGCTGTCTCACAGTCATCCACGGGCACTGTTATGGGAGCCGT
 CATCATGGAAGGTTTCTATGTCGCTTTCGATCGAGCCCGAAAGCGAATTGGCTTTGCTGTGACGCGTTGC
 CATGTGCACGATGAGTTCAGGACGGCGGAGTGAAGGTCGTTTGTACGGCAGACATGGAAGACTGTG
 GCTACAACATTCCCAGACAGATGAGTCAACACTTATGACCATAGCCTATGTCATGGCGGCCATCTGCGC
 CCTCTTATGTTGCCACTCTGCCTCATGGTATGTCAGTGGCGCTGCCTGCGTTGCTGCGCCACCAGCAC
 GATGACTTTGCTGATGACATCTCCCTGCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208042 protein sequence
 Red=Cloning site Green=Tags(s)

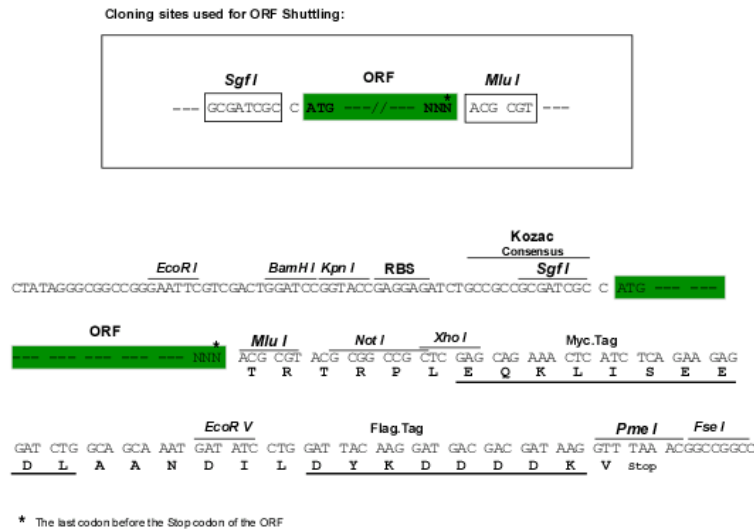
MAPALHWLLLWVSGMLPAQGHILGIRLPLRSLGAPPLGLRLPRETDEESEEPGRRGSFVEMVDNLRGK
 SGQGYVEMTVGSPPQTLNILLVDTGSSNFVGAAPHPFLHRYRQLSSTYRDLRKGVYVYPTQGWEGE
 LGTDLVSIHPGNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFDSLQVQTHIPNI
 FSLQLCGAGFPLNQTEALASVGGSMIIGGIDHSLYTGSLWYPIRREWYEVIIIVRVEINGQDLKMDCKE
 YNYDKSIVDSGTTNLRPLPKVFEAAVKSIIKAASSTEFKPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG
 EVTNQSFRTILPQYLRPVEDVATSQDDCYKFAVSQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSAC
 HVHDEFRTAAVEGPFVTADMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQH
 DDFADDISLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_011792

ORF Size: 1506 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: 4194 bp

RefSeq ORF: 1506 bp

Locus ID: 23821

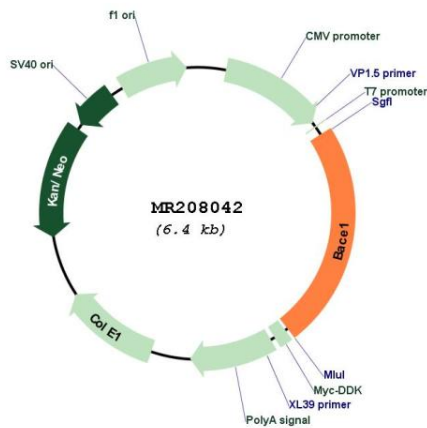
UniProt ID: [P56818](#)

Cytogenetics: 9 A5.2

MW: 55.7 kDa

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]

Product images:



Circular map for MR208042