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Product datasheet for MG227052

Bace1 (NM_001145947) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bace1 (NM_001145947) 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:

>MG227052 representing NM_001145947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCCAGCGCTGCACTGGCTCCTGCTATGGGTGGGCTCGGGAATGCTGCCTGCCCAGGGAACCCATC
TCGGCATCCGGCTGCCCCTTCGCAGCGGCCTGGCAGGGCCACCCCTGGGCCTGAGGCTGCCCCGGGAGAC
CGACGAGGAATCGGAGGAGCCTGGCCGGAGAGGCAGCTTTGTGGAGATGGTGGACAACCTGAGGGGAAAG
TCCGGCCAGGGCTACTATGTGGAGATGACCGTAGGCAGCCCCCCACAGACGCTCAACATCCTGGTGGACA
CGGGCAGTAGTAACTTTGCAGTGGGGGCTGCCCCACACCCTTTCCTGCATCGCTACTACCAGAGGCAGCT
GTCCAGCACATATCGAGACCTCCGAAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAGGGGGAA
CTGGGCACCGACCTGGTGAGCATCCCTCATGGCCCCAACGTCACTGTGCGTGCCAACATTGCTGCCATCA
CTGAATCGGACAAGTTCTTCATCAATGGTTCCAACTGGGAGGGCATCCTAGGGCTGGCCTATGCTGAGAT
TGCCAGGCCCGACGACTCTTTGGAGCCCTTCTTTGACTCCCTGGTGAAGCAGACCCACATTCCCAACATC
TTTTCCCTGCAGCTCTGTGGCGCTGGCTTCCCCCTCAACCAGACCGAGGCACTGGCCTCGGTGGGAGGGA
GCATGATCATTGGTGGTATCGACCACTCGCTATACACGGGCAGTCTCTGGTACACACCCATCCGGCGGGA
GTGGTATTATGAAGTGATCATTGTACGTGTGGAAATCAATGGTCAAGATCTCAAGATGGACTGCAAGGAG
ACGGAGAAGTTCCCGGATGGCTTTTGGCTAGGGGAGCAGCTGGTGTGCTGGCAAGCAGGCACGACCCCTT
GGAACATTTTCCCAGTCATTTCACTTTACCTCATGGGTGAAGTCACCAATCAGTCCTTCCGCATCACCAT
CCTTCCTCAGCAATACCTACGGCCGGTGGAGGACGTGGCCACGTCCCAAGACGACTGTTACAAGTTCGCT
GTCTCACAGTCATCCACGGGCACTGTTATGGGAGCCGTCATCATGGAAGGTTTCTATGTCGTCTTCGATC
GAGCCCGAAAGCGAATTGGCTTTGCTGTCAGCGCTTGCCATGTGCACGATGAGTTCAGGACGGCGGCAGT
GGAAGGTCCGTTTGTTACGGCAGACATGGAAGACTGTGGCTACAACATTCCCCAGACAGATGAGTCAACA
CTTATGACCATAGCCTATGTCATGGCGGCCATCTGCGCCCTCTTCATGTTGCCACTCTGCCTCATGGTAT
GTCAGTGGCGCTGCCTGCGTTGCCTGCGCCACCAGCACGATGACTTTGCTGATGACATCTCCCTGCTCAA
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

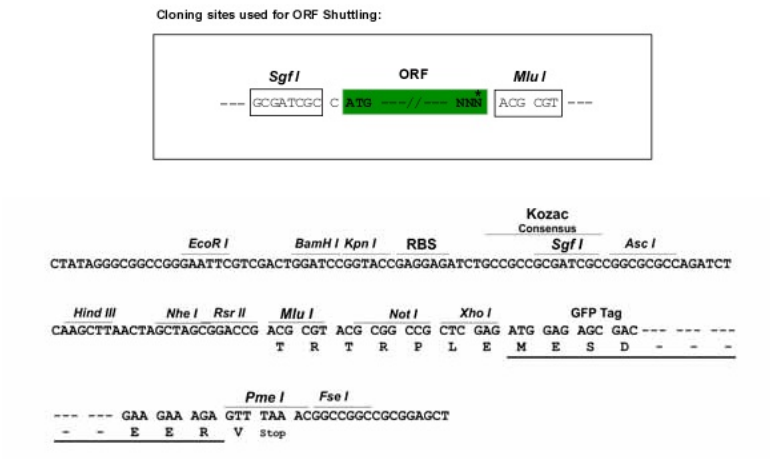
>MG227052 representing NM_001145947
Red=Cloning site Green=Tags(s)

MAPALHWLLLWVGSGMLPAQGTHLGIRLPLRSGLAGPPLGLRLPRETDEESEEPGRRGSFVEMVDNLRGK
SGQGYYVEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGE
LGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDSLVKQTHIPNI
FSLQLCGAGFPLNQTEALASVGGSMIIGGIDHSLYTGSLWYTPIRREWYYEVIIVRVEINGQDLKMDCKE
TEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITILPQQYLRPVEDVATSQDDCYKFA
VSQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTADMEDCGYNIPQTDEST
LMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQHDDFADDISLLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145947

ORF Size: 1401 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_001145947.2

RefSeq Size: 4092 bp

RefSeq ORF: 1404 bp

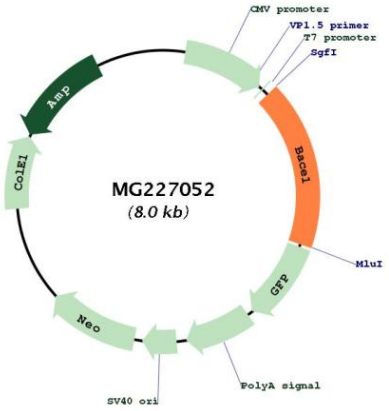
Locus ID: 23821

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]

Product images:



Circular map for MG227052