

Product datasheet for **MG220631**

Bace2 (NM_019517) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bace2 (NM_019517) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bace2
Synonyms:	1110059C24Rik; A; AEPLC; AI850424; AL; ALP56; ARP1; AS; ASP1; ASP21; BAE; BAE2; CDA1; CDA13; CEA; CEAP1; DRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220631 representing NM_019517
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGCGCTGCTTCGAGCACTCTTGCTCCTGGTCTGGCGCAGTGGCTCTTGTAGTGGGTCCCGCGC
 TGGCCCCCGGCCCTTACGCTGCCCTCCAAGTGGCCGGGGCCACGAACCACAGAGCCTCGGCTGTCC
 CGGACTCGGGACCCCGAGTTGCCCGGGCCGATGGTCTGGCCCTCGCACTGGAGCCTGTAGGGCTACT
 GCCAACTTCTGGCTATGGTGGACAACCTTCAGGGGGACTCTGGCCGCGGCTACTACCTAGAGATGCTGA
 TCGGGACCCCTCCGAGAAGGTACAGATTCTTGTGGACTGGAAGCAGTAACTTCGCTGTGGCAGGTGC
 CCCCACTCTACATAGACACCTACTTTGACTCAGAGAGCTCCAGCACATACCACTCCAAGGGCTTTGAT
 GTCAGTGTGAAGTACACACAGGAAGCTGGACTGGCTTTGTTGGTGGAGCCTTGTACCATCCCAAAG
 GCTTCAACAGCTCTTTCTGGTCAATATTGCCACTATTTTCGAGTCTGAGAATTTCTTTTGGCTGGTAT
 TAAATGGAATGGAATCCTTGGACTTGTATTGCTGCTTTGGCCAAGCCATCAAGCTCTCTGGAGACATTT
 TTTGATCCCTGGTGGCCCAAGCAAAGATTCCAGACATTTTCTCCATGCAGATGTGCGGGCTGGATTGC
 CAGTAGCTGGTCTGGTACCAACGGAGGTAGTCTTGTCTGGGTGGGATTGAACCAAGTTTGATAAAGG
 AGATATCTGGTATACCCAATTAAGAGGAATGGTACTATCAAATAGAAATCCTGAAGTTGGAAATTGGA
 GGCCAGAACCTCAACCTGGACTGCAGAGAGTATAACGCAGACAAGGCCATTGTGGACAGTGGCACCACGC
 TCCTGCGCCTGCCCCAGAAGGTGTTGATGCAGTGGTGGAAAGCTGTGGCAGCAACATCTCTGATTCCAGA
 GTTTTCTGATGGCTTCTGGACAGGGGCCAGCTGGCATGCTGGACAAATCTGAAACGCCATGGGCATAT
 TTCCCTAAGATTTCTATCTACCTGAGAGATGAGAATGCCAGTGCCTCTCCGGATCACCATTCTCCAC
 AGCTCTACATTCAGCCCATGATGGGAGCTGGTTTCAATTATGAATGCTACCGTTTTGGTATCTCCTTTC
 CACAAATGCGCTGGTGATTGGTGCAGCCGTGATGGAAGGCTTCTACGTGGTCTTTGACAGAGCTCAGAGG
 AGGGTGGGCTTTGCAGTGAATCCCTGTGCAGAGATTGAAGGTACCAAGTGTCTGAAATTTCTGGGCCCT
 TTTCCACGGAAGACATAGCCAGCAACTGTGTTCCAGCACAGGCTCTGAATGAGCCCATCTTGTGGATTGT
 GTCCTATGCCCTGATGAGTGTGTGGAGCCATTCTCCTGGTTCTGATCCTCCTCCTGCTGCCGCTG
 CACTGCCGTCATGCCCCCGAGACCCTGAGGTAGTTAACGATGAGTCTCACTAGTCAGACATCGCTGGA
 AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220631 representing NM_019517
 Red=Cloning site Green=Tags(s)

MGALLRALLLLVLQWLLSAVPALAPAPFTLPLQVAGATNHRASAVPGLGPELPRADGLALALEPVRAT
 ANFLAMVDNLQDSDGRGYYLEMLIGTPPKVQILVDTGSSNFAVAGAPHSYIDTYFDSESSSTYHSGKFD
 VTKYQTQGSWTGFVGEDLVIPKGFNSSFLVNIATIFESENFPLPGIKWNGILGLAYAALAKPSSSLETF
 FDSLVAQAKIPDIFSMQMGAGLPVAGSGTNGGSLVLGGIEPSLYKGDIIWYTPIKEEWYYQIEILKLEIG
 GQNLNLDREYNADKAIVDSGTTLLRPLQKVFDAVVEAVARTSLIPEFSDGFWTGAQLACWTNSETPWAY
 FPKISIIYLRDENASRSFRITILPQLYIQPMGAGFNYECYRFGISSSTNALVIGATVMEGFVVFDRQR
 RVGFAVSPCAEIEGTTVSEISGPFSTEDIASNCVPAQALNEPILWIVSYALMSVCGAILLVLILLLLPL
 HCRHAPRDPEVNVNDESSLVRHRWK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ORF Size:	1542 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:	<ol style="list-style-type: none">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_019517.1
RefSeq Size:	3736 bp
RefSeq ORF:	1545 bp
Locus ID:	56175
UniProt ID:	Q9JL18
Cytogenetics:	16 C4
Gene Summary:	This gene encodes a member of the peptidase A1 family of aspartic proteases. The encoded preproprotein undergoes proteolytic processing to generate an active endopeptidase enzyme. This transmembrane protease catalyzes the proteolysis of amyloid precursor protein to produce amyloid beta peptide. Mice lacking the encoded product exhibit increased pancreatic beta cell mass and improved glucose tolerance due to increased insulin secretion. [provided by RefSeq, Jul 2016]