

Product datasheet for **RG220224**

BACE1 (NM_138971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACE1 (NM_138971) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BACE1
Synonyms:	ASP2; BACE; HSPC104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220224 representing NM_138971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAAGCCCTGCCCTGGCTCCTGCTGTGGATGGGCGGGGAGTGCCTGCCACGGCACCCAGC
 ACGGCATCCGGCTGCCCTGCGCAGCGGCTGGGGGGCGCCCCCTGGGGCTGCGGCTGCCCGGGAGAC
 CGACGAAGAGCCCGAGGAGCCCGGCCGGAGGGGACGTTTGTGGAGATGGTGGACAACTGAGGGGCAAG
 TCGGGGACAGGCTACTACGTGGAGATGACCGTGGGCGAGCCCCCGCAGACGCTCAACATCCTGGTGGATA
 CAGGCAGCAGTAACTTTCAGTGGGTGCTGCCCCACCCTTCTGCATCGCTACTACCAGAGGCAGCT
 GTCCAGCACATACCGGGACCTCCGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
 CTGGGCACCGACCTGCCTGACGACTCCCTGGAGCCTTTCTTTGACTCTCTGGTAAAGCAGACCCACGTTCC
 CCAACCTTTCTCCCTGCAGCTTTGTGGTGTGGCTTCCCCTCAACCAGTCTGAAGTGTGGCCTCTGT
 CGGAGGGAGCATGATCATTGGAGGTATCGACCACTCGCTGTACACAGGCAGTCTCTGGTATACCCCATC
 CGCGGGGAGTGGTATTATGAGGTGATCATTGTGCGGGTGGAGATCAATGGACAGGATCTGAAAATGGACT
 GCAAGGAGTACAACATGACAAGAGCATTGTGGACAGTGGCACCAACCAACCTTCGTTTGCCCAAGAAAGT
 GTTTGAAGCTGCAGTCAAATCCATCAAGGCAGCCTCCTCCACGGAGAAGTTCCTGATGGTTTCTGGCTA
 GGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACCACCCCTTGAACATTTTCCAGTCATCTCACTCTACC
 TAATGGGTGAGGTTACCAACCAGTCTTCCGCATCACCATCCTCCGCAGCAATACCTGCGGCCAGTGGA
 AGATGTGGCCACGTCCCAAGACGACTGTTACAAGTTTCCATCTCACAGTCATCCACGGGCACTGTTATG
 GGAGCTGTTATCATGGAGGGCTTCTACGTTGTCTTTGATCGGGCCGAAAACGAATTGGCTTTGCTGTCA
 GCGCTTGCCATGTGCACGATGAGTTCAGGACGGCAGCGGTGGAAGGCCCTTTTGTACCTTGACATGGA
 AGACTGTGGCTACAACATTCCACAGACAGATGAGTCAACCCTCATGACCATAGCCTATGTCATGGCTGCC
 ATCTGCGCCCTTTCATGCTGCCACTCTGCCTCATGGTGTGTGAGTGGCGCTGCCTCCGCTGCCTGCGCC
 AGCAGCATGATGACTTTGCTGATGACATCTCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220224 representing NM_138971
 Red=Cloning site Green=Tags(s)

MAQALPWL LLMGAGVLP AHGTQHGI RPLRSLGGAPLGLR LPRETDEEPEEPGRRSFVEMVDNLRGK
 SGQGYVEMTVGSPPQTLN LVDTGSSNF AVGAAPHPFLHRY YQRQLSSTYRDLRKG VYVPYTQGWEGE
 LGTDL PDDSLPFFDSL VKQTHV PNLFSLQLCGAGFLNQSEVLASVGGSM IIGGIDHSLYTGSLWYTP I
 RREWYVEV IIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLR LPKKVFEAAVKS IKAASSTEKFPDGFWL
 GEQLVCWQAGTTPWNI FPVISLYLMGEVTNQSF RITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTV M
 GAVIMEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAA
 ICALFMLPLCLMVCQWRCLRCLRQHQHDFADDISLLK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<u>NM_138971.3</u> , <u>NP_620427.1</u>
RefSeq Size:	5718 bp
RefSeq ORF:	1374 bp
Locus ID:	23621
UniProt ID:	<u>P56817</u>
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Alzheimer's disease
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. [provided by RefSeq, Nov 2015]