

Product datasheet for **RG232613**

BACE1 (NM_001207049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACE1 (NM_001207049) 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)
ORF Nucleotide Sequence:	>RG232613 representing NM_001207049 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCCCTTCATCTATCTGCAAGCCCACTTTACTCTGTTCTGGGTGGTCCAGCACATACCGGGACC
TCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAGCTGGGCACCGACCTGGTAAG
CATCCCCATGGCCCCAAGTCACTGTGCGTGCCAACATTGCTGCCATCACTGAATCAGACAAGTTCTTC
ATCAACGGCTCCAAGTGGGAAGGCATCCTGGGGCTGGCCTATGCTGAGATTGCCAGGCTTTGTGGTGTG
GCTTCCCCCTCAACAGTCTGAAGTGTGGCCTCTGTCGGAGGGAGCATGATCATTGGAGGTATCGACCA
CTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGGAGTGGTATTATGAGGTGATCATTGTG
CGGGTGGAGATCAATGGACAGGATCTGAAAATGGACTGCAAGGAGTACAACATGACAAGAGCATTGTGG
ACAGTGGCACCACCAACCTTCGTTTGCCTAAGAAAGTGTTTGAAGCTGCAGTCAAATCCATCAAGGCAGC
CTCCTCCACGGAGAAGTTCCTGATGGTTTCTGGCTAGGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACC
ACCCCTTGAACATTTCCAGTCATCTCACTCTACCTAATGGGTGAGGTTACCAACAGTCCTTCCGCA
TCACCATCCTTCCGACGAATACCTGCGGCCAGTGAAGATGTGGCCACGTCCCAAGACGACTGTTACAA
GTTTGCATCTCACAGTCATCCACGGCCACTGTTATGGGAGCTGTTATCATGGAGGGCTTCTACGTTGTC
TTTGATCGGGCCCGAAAACGAATTGGCTTGTGCTGTCAGCGCTTGCCATGTGCAGATGAGTTCAGGACGG
CAGCGGTGGAAGGCCCTTTGTACCTTGACATGGAAGACTGTGGCTACAACATTCCACAGACAGATGA
GTCAACCTCATGACCATAGCCTATGTCATGGCTGCCATCTGCGCCCTTTCATGCTGCCACTCTGCCTC
ATGGTGTGTCAGTGGCGCTGCCTCCGCTGCCTGCGCCAGCAGCATGATGACTTTGCTGATGACATCTCC
TGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232613 representing NM_001207049
 Red=Cloning site Green=Tags(s)

MVPFIYLQAHFTLCSGWSSTYRDLRKGVYVYPTQGWEGELGTDLVSIHPGNVTVRANIAAITESDKFF
 INGSNWEGILGLAYAEIARLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWYVEIIV
 RVEINGQDLKMDCKEYNYDKSI VDSGTTNLRPKKVFEAAVKSIIKAASSTEKFPDGFWLGEQLVCWQAGT
 TPWNIFFVVISLYLMGEVTNQSFRTIILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVV
 FDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCL
 MVCQWRCLRCLRQHQHDFADDISLLK

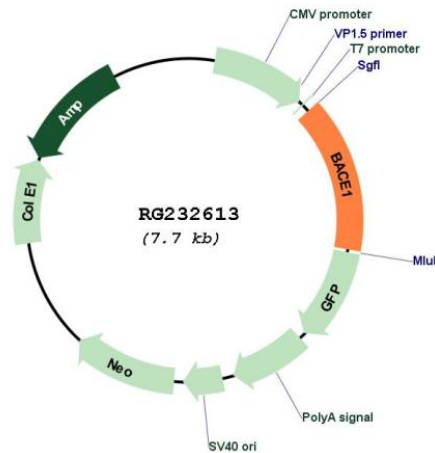
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001207049

ORF Size:	1128 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_001207049.2
RefSeq Size:	5151 bp
RefSeq ORF:	1131 bp
Locus ID:	23621
UniProt ID:	P56817
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]