

Product datasheet for **RG209115**

BACE1 (NM_012104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACE1 (NM_012104) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG209115 representing NM_012104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCCCAAGCCCTGCCCTGGCTCCTGTGTGGATGGGCGGGAGTGCTGCCTGCCACGGCACCCAGC
 ACGGCATCCGGCTGCCCTGCGCAGCGGCTGGGGGGCGCCCCCTGGGGCTGCGCTGCCCGGGAGAC
 CGACGAAGAGCCCGAGGAGCCCGGCCGAGGGGAGCTTTGTGGAGATGGTGACAACCTGAGGGGCAAG
 TCGGGGACGGCTACTACGTGGAGATGACCGTGGGCGAGCCCCCGCAGACGCTCAACATCCTGGTGATA
 CAGGCAGCAGTAACCTTGCAGTGGGTGCTGCCCCCACCCTTCTGCATCGCTACTACCAGAGGACGCT
 GTCCAGCACATACCGGGACCTCCGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
 CTGGGCACCGACCTGGTAAGCATCCCCATGGCCCCAACGTCAGTGTGCGTGCCAACATTGCTGCCATCA
 CTGAATCAGACAAGTTCTTCATCAACGGCTCCAACCTGGGAAGGCATCCTGGGGCTGGCCTATGCTGAGAT
 TGCCAGGCCTGACGACTCCCTGGAGCCTTCTTTGACTCTCTGGTAAAGCAGACCCACGTTCCCAACCTC
 TTCTCCCTGCAGCTTTGTGGTGCTGGCTTCCCCCTCAACCAAGTCTGAAGTGTGGCTCTGTGCGAGGGGA
 GCATGATCATTGGAGGTATCGACCACTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGGGA
 GTGGTATTATGAGGTGATCATTGTGCGGGTGGAGATCAATGGACAGGATCTGAAAATGGACTGCAAGGAG
 TACAACATGACAAGAGCATTGTGGACAGTGGCACCAACCTTCGTTTGCCCAAGAAAGTGTTTGAAG
 CTGCAGTCAAATCCATCAAGGCAGCCTCCTCCACGGAGAAGTTCCTGATGGTTTCTGGCTAGGAGAGCA
 GCTGGTGTGCTGGCAAGCAGGCACACCCCTTGGAAACATTTCCAGTCATCTACTCTACCTAATGGGT
 GAGGTTACCAACAGTCCTTCCGCATCACCATCCTCCGCAGCAATACCTGCGGCCAGTGGAAAGATGTGG
 CCACGTCCTCAAGACGACTGTTACAAGTTTGCCATCTCACAGTCATCCACGGGCACTGTTATGGGAGCTGT
 TATCATGGAGGGCTTCTACGTTGTCTTTGATCGGGCCCGAAAACGAATTGGCTTTGCTGTACGCGCTTGC
 CATGTGCACGATGAGTTCAGGACGGCAGCGGTGGAAGGCCCTTTTGTACCTTGGACATGGAAGACTGTG
 GCTACAACATTCCACAGACAGATGAGTCAACCCTCATGACCATAGCCTATGTGATGGCTGCCATCTGCGC
 CCTCTTCATGCTGCCACTCTGCCTCATGGTGTGTCAAGTGGCGCTGCCTCCGCTGCCTGCGCCAGCAGCAT
 GATGACTTTGCTGATGACATCTCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209115 representing NM_012104
 Red=Cloning site Green=Tags(s)

MAQALPWLLWMGAGVLPAGHTQHGIPLRLRSLGGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGK
 SGQGYVEMTVGSPPQTLNILDVTGSSNFAVGAAPHPFLHRYRQLSSTYRDLRGVYVPTQGWEGE
 LGTDLVSIHPGNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDSDLEPFDSLKQTHVNL
 FSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSWYTPIRREWYEVIIVRVEINGQDLKMDCKE
 YNYDKSIVDSGTTNLRPLPKVFEEAAVKSIIKAASSTEFDPDFWLGEQLVCWQAGTTPWNIFPVISLYLMG
 EVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSGTVMGAVIMEGFYVVFDRARKRIGFAVSAC
 HVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRLRQQH
 DDFADDISLLK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_012104

ORF Size: 1503 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012104.4](#)

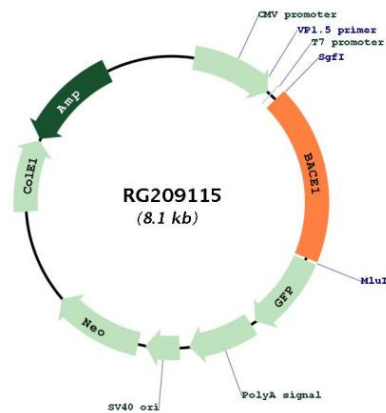
RefSeq Size: 5850 bp

RefSeq ORF: 1506 bp

Locus ID: 23621

UniProt ID:	P56817
Cytogenetics:	11q23.3
Domains:	asp
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]

Product images:



Circular map for RG209115