

## Product datasheet for RC232613

### BACE1 (NM\_001207049) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BACE1 (NM\_001207049) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** BACE1  
**Synonyms:** ASP2; BACE; HSPC104  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232613 representing NM\_001207049  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTTCCTTCATCTATCTGCAAGCCACTTTACTCTGTTCTGGGTGGTCCAGCACATACCGGGACC  
 TCCGGAAGGGTGTGTATGTGCCCTACACCCAGGCAAGTGGGAAGGGGAGCTGGGCACCGACCTGGTAAG  
 CATCCCCATGGCCCCAACGTCCTGTGGGTGCCAACATTGCTGCCATCACTGAATCAGACAAGTCTTC  
 ATCAACGGCTCCAACCTGGGAAGGCATCCTGGGGCTGGCCTATGCTGAGATTGCCAGGCTTTGTGGTGCTG  
 GCTTCCCCCTCAACCAAGTCTGAAGTGTGGCCTCTGTCGGAGGGAGCATGATCATTGGAGGTATCGACCA  
 CTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGGAGTGGTATTATGAGGTGATCATTGTG  
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 CTCCTCCACGGAGAAGTCCCTGATGGTTTCTGGCTAGGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACC  
 ACCCTTGGAAACATTTCCAGTCATCTCACTACCTAATGGGTGAGGTTACCAACCAAGTCTTCCGCA  
 TCACCATCCTTCCGACGCAATACCTGCGGCCAGTGGAAAGATGTGGCCACGTCCCAAGCAGACTGTTACAA  
 GTTTGCCATCTCACAGTCATCCACGGGCACTGTTATGGGAGCTGTTATCATGGAGGCTTCTACGTTGTC  
 TTTGATCGGGCCGAAAACGAATTGGCTTTGCTGTGTCAGCGCTTGCCATGTGCACGATGAGTTCAGGACGG  
 CAGCGGTGGAAGGCCCTTTGTACCTTGGACATGGAAGACTGTGGCTACAACATTCCACAGACAGATGA  
 GTCAACCTCATGACCATAGCCTATGTCATGGCTGCCATCTGCGCCCTTTCATGCTGCCACTCTGCCTC  
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 TGCTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >RC232613 representing NM\_001207049  
 Red=Cloning site Green=Tags(s)

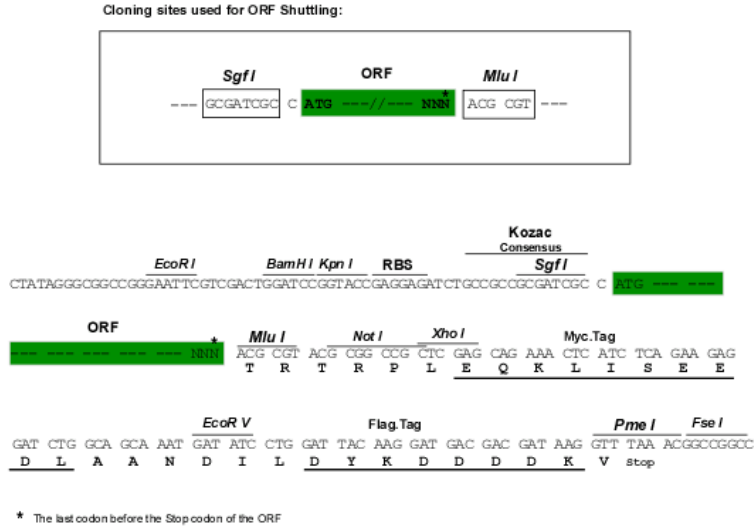
MVPFIYLQAHFTLCSGWSSTYRDLRKGVYVPYTQGWEGELGTDLVSIPHGNVTVRANIAAITESDKFF  
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 RVEINGQDLKMDCKEYNYDKSIVDSGTTNLRPKKVFEAAVKSIIKASSTEKFPDGFWLGEQLVCWQAGT  
 TPWNIFFVISLYLMGEVTNQSFRTIILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVV  
 FDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCL  
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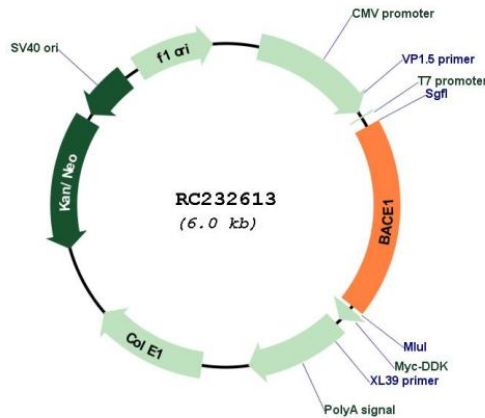
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001207049

<b>ORF Size:</b>	1128 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001207049.2</a>
<b>RefSeq Size:</b>	5151 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	23621
<b>UniProt ID:</b>	<a href="#">P56817</a>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease
<b>MW:</b>	42.6 kDa
<b>Gene Summary:</b>	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]