*h*EEA1 VersaClone cDNA

Catalog Number: RDC1016

Specifications:

Gene:	*h*EEA1
Accession:	NP_003557
Insert size:	4249bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

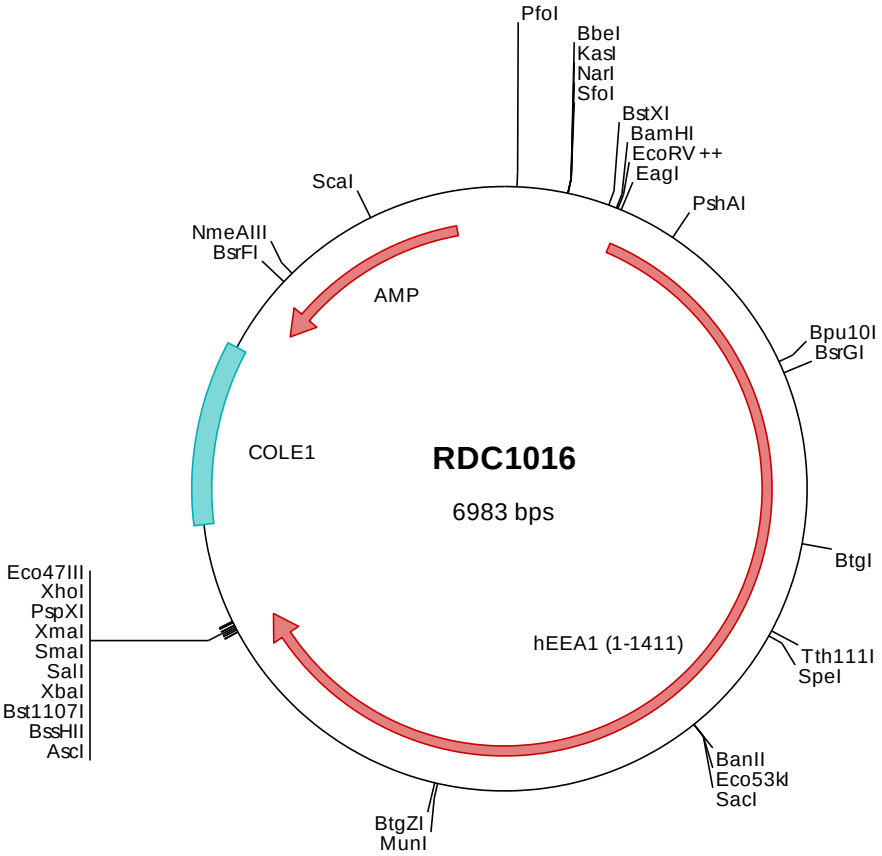
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*EEA1 cDNA Plasmid

EEA1 early endosome antigen 1 [*Homo sapiens* (human)]

Also known as: MST105; ZFYVE2; MSTP105

Summary:
EEA1 serves as an identifying marker for early endosomes. It is ubiquitously expressed, and found in both the cytosol and on cellular membranes. Its activity has been described as that of a tethering factor which links endosomes to endocytic vesicles, allowing for their fusion via a SNARE complex. Normally, EEA1 exists as a homodimer in the cytoplasm and appears to make transient contacts with endosome membrane phosphatidylinositol.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1016 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgttaagga ggattttaca gaggactcct gggagagttg gctctcaagg
 501  ttctgattta gattcatcag caactcctat aaacacagtg gacgtcaata atgaaagctc ttcagagggt ttcatatgtc cccagtgtat gaaatctctt
 601  ggatctgctg atgaactttt caaacattat gaagctgttc atgatgctgg taatgactca ggtcatggag gagagtctaa tcttgctttg aagcgagatg
 701  atgtaacact gctcagacaa gaggtccaag acctacaggc ttcacttaag gaagaaaaat ggtactcgga agaattaaag aaggaattag aaaaatatca
 801  agggctgcag cagcaagagg ccaaacctga tgggttggtg actgattcat cagcagaact acagtctttg gaacagcaat tagaagaagc ccaaacagaa
 901  aattttaata ttaagcaaat gaaagactta tttgaacaga aagcagccca acttgctact gaaattgcag atataaagtc aaagtatgat gaagaaagga
1001  gtcttcgaga agctgctgaa caaaaagtga cacgtctgac agaagaatta aacaaagagg caactgtaat tcaagatctg aagacggaac tgcttcagag
1101  acctggtata gaagatgttg ccgtgctaaa gaaagaactg gtccaagttc aaacactaat ggataacatg accttggaac gtgagcgaga atctgaaaaa
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1301  ctgtatatgt acaggaacta caaaaactga aaagttcagt taatgaatta acacaaaaaa atcagacctt gacagaaaac ttgctgaaaa aagaacaaga
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1901  ataaaacaaa gcaacagcat caagaacaac aggctcttca gcaaagcacc acggcaaaac ttcgagaagc tcagaatgat ttggaacaag ttctacgtca
2001  aattggcgat aaggaccaaa agatccagaa ccttgaagct ttattacaga agagtaaaga aaatatttca ttactagaaa aagaaagaga agatctttat
2101  gcaaaaattc aggctggtga aggagagact gctgttctta accagttaca agaaaaaaac catacactac aggagcaagt aactcaacta acagagaagc
2201  tgaagaatca gtcagaaagt cataaacaag cccaggagaa tttgcatgac caggtacaag agcagaaggc acatcttaga gctgcacaag accgtgtcct
2301  ttccctagaa actagtgtca atgaattaaa tagtcaatta aatgaaagca aggagaaggt ctcccagctt gacatacaga ttaaagccaa aaccgaacta
2401  ttactatcag cagaagcagc aaaaactgct caaagagctg atcttcagaa tcatttggac acagctcaaa atgcattaca agatataacag caggagttaa
2501  ataagattac tactcagttg gatcaggtca ctgcaaagtt acaagacaag caagaacatt gcagtcagct ggaaagtcat cttaaagaat ataaagagaa
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2901  aactttaagt caagaaacaa agattcagca tgaggaattg aataacagaa ttcaaacaac agtaacagaa ctacaaaaag tgaaaatgga gaaagaagct
3001  ttaatgacag agctttctac agtaaaggac aaactatcaa aagtttctga ttctttgaaa aactctaaaa gtgaatttga aaaggagaat cagaaaggaa
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> RDC1016 Translated Insert Sequence

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 201  nkeatviqdl ktellqrpgi edvavlkkel vqvqtlmdnm tlereresek lkdeckklqs qyasseatis qlrselakgp qevavyvqel qklkssvnel
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 801  kltkqeeekq ilkqdfetls qetkiqheel nnriqttvte lqkvkmekea lmtelstvkd klskvsdslk nsksefeken qkgkaaildl ektckelkhq
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1401  vcdacfndlq g
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