

Specifications:

Gene:	<i>mRaet1a</i>
Accession:	NP_033042.1
Insert size:	775bp
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.

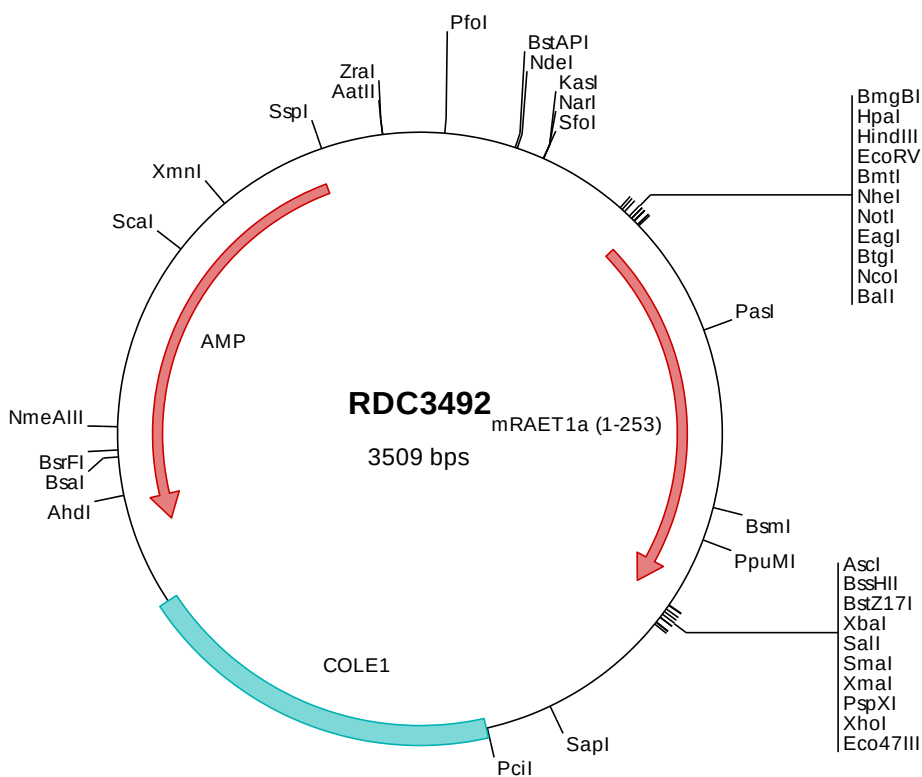
mRae-1 alpha cDNA Plasmid

Raet1a retinoic acid early transcript 1, alpha [*Mus musculus* (house mouse)]

Also known as: Rae; RAE-; Rae1a; Raet1; Rae1alpha; RAE-1alpha

Summary:

RAET1A belongs to the RAET1 family, which consists of major histocompatibility complex (MHC) class I-related genes located in a cluster on chromosome 6q24.2-q25.3. RAET1A and RAET1G differ from other RAET1 proteins in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. RAET1A functions as a ligand for NKG2D receptor, which is expressed on the surface of several types of immune cells and is involved in innate and adaptive immune responses.



> RDC3492 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atggccaagg cagcagtgac caagcgccat cattttatga ttcagaagct
501  gttaattcta ctgagctatg gatacaccaa cgggctggat gatgcacact ctcttaggtg caacttgacc atcaaggatc ctacccagc agatcctctc
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701  ccactgaagt gggggaatgt ttgacacaa ctctgaaa tttgtgccag aagttgagga acaaggtgtc taacaccaa gtggacactc acaagaccaa
801  tggttaccca catttacaag tcaccatgat ttatctgcaa agccagggcc aaattcctag tgccacctgg gaattcaaca tcagtgcag ttacttcttc
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2501 tcacccatag ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacc tctggcccca gtgctgcaat gatacccgca gacccacgct
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3501 cctttctgct

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> RDC3492 Translated Insert Sequence

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201  pkekrprstr spsqtqltst splppshst skkgfisvgl ifislffafa fam

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