

Specifications:

Gene:	<i>h</i> VIM
Accession:	NP_003371.2
Insert size:	1414bp
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

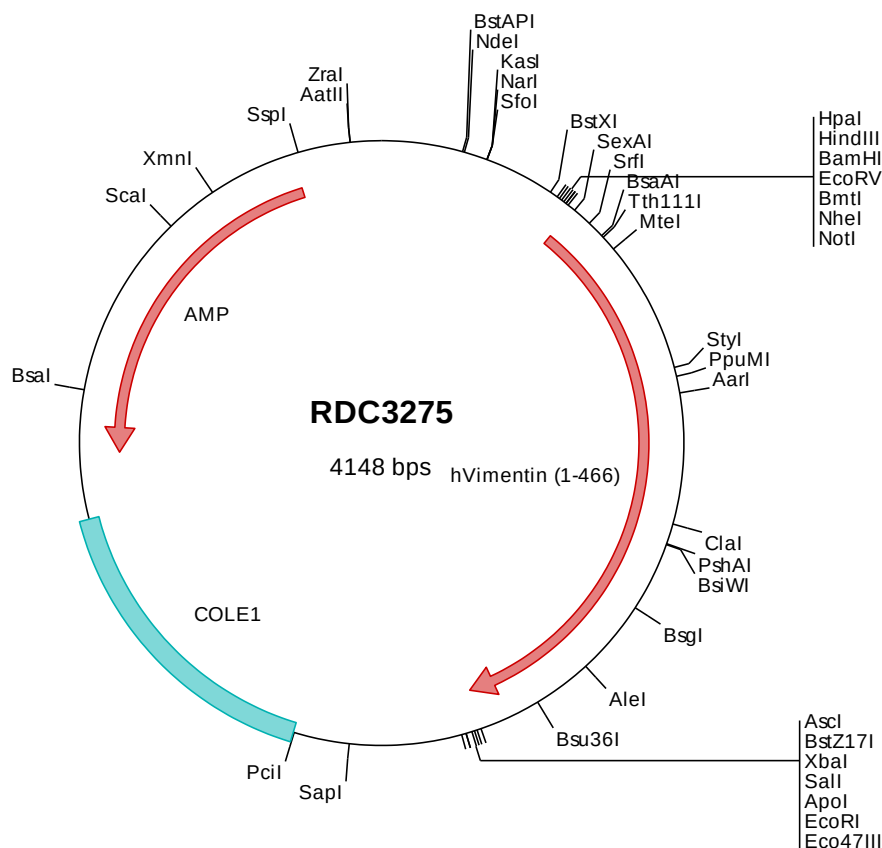
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Vimentin cDNA Plasmid

VIM vimentin [*Homo sapiens* (human)]

Summary:

VIM/Vimentin is a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. VIM is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to VIM on the host cell surface. Mutations in VIM are associated with congenital cataracts in human patients.



> RDC3275 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccc
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta agccagggtt tttccagtc acgacgttgt aaaacgacgg ccagtgtaatt
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501  ccggggcacc gcgagcggcg cgagctccag ccggagctac gtgactacgt ccacccgcac ctacagcctg ggcagcgccg tgcgccccag caccagccgc
601  agcctctacg cctcgtcccc gggcggcggt tatgccacgc gctcctctgc cgtgcgctg cggagcagcg tgcgggggtt gggcctctct caggactcgg
701  tggactttct cctggccgac gccatcaaca ccgagttcaa gaacaccgc accaacgaga aggtggagct gcaggagctg aatgaccgct tcgccaaata
801  catcgacaag gtgcgctctc ttgagcagca gaataagatc ctctggtcgg agctcgagca gctcaagggc caaggcaagt cgcgcctggg ggaacctctac
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1801 gatggacagg ttatcaacga aacttctcag catcacgatg accttgaata aaggcgccgc agtatactct agagtcgaca cccggggaat tctcgcagcg
1901  ctgctctcta gcttggcgta atcatggtca tagctgttcc ctgtgtgaaa ttgtttaccg ctccacaatto cacacaacat acgagccgga agcataaagt
2001  gtaaaagcctg ggttgccctaa tgagtgcgct aactcacatt aattgcgttg cgtcactatc ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta
2101  atgaatcggc caacgcgcgg ggagaggcgg ttgctgctatt gggcgtctct cgtctactgc gctcactgac tcgctgcgct cggctcgttc gctgcggcga
2201  gcggtatcag ctactcaaaa gccggttaata cggttatcca cagaatcagg ggaataacga ggaagagaaca tgtgagcaaa agccacgcaa aaggccagga
2301  accgtaaaaa agccgcgcttg ctggcgctttt tccatagctc ccgccccctc gacgagcatc acaaaaatcg acgctcaagt cagaggtggc gaaacccgac
2401  aggaactaaa agataccagg cgtttccccc tggaaagctcc ctctgtctcc ctctgtctcc gaccctgcgg cttaccggat cttactccgc ctttctccct
2501  tcgggaagcg tggcgctttc tcaattgctc acgtctaggt atctcagttt ggtgtaggtc gttcgtccca agctgggctg tgtgcacgaa cccccgctt
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4001  agcggataca tatttgaatg tatttagaaa aataaataaa taggggttcc gcgcacattt ccccgaaaag tgccacctga cgtctaagaa accattatta
4101  tcatgacatt aactataaaa aataggcgta tcacgagccc ctttcgtc

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> RDC3275 Translated Insert Sequence

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201  ntlqsfrrqdv dnaslarldl erkveslqee iaflklkhee eiqlqagiq eqhvqidvds skpdltaalr dvrgqyesva aknlqeaew ykskfadlse
301  aanrnndalr qakqesteyr rqvqsltcev dalkgtneis erqmremeen faveaanyqd tigrlqdeiq nmkeemarhl reyqdllnvk maldieiaty
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