*m*Ret VersaClone cDNA

Catalog Number: RDC2757

Specifications:

Gene:	*m*Ret
Accession:	NP_033076
Insert size:	3361bp
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.

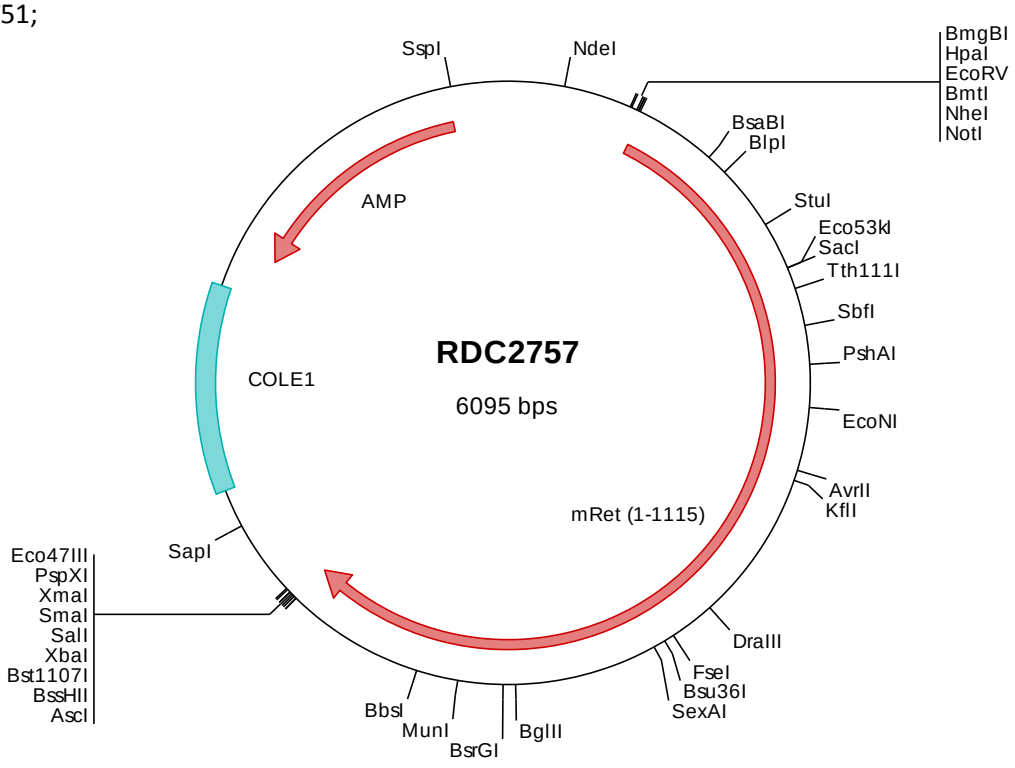
*m*Ret cDNA Plasmid

Ret ret proto-oncogene [*Mus musculus* (house mouse)]

Also known as: PTC; RET9; RET51; c-Ret

Summary:

RET is a member of the cadherin superfamily. It is one of the receptor tyrosine kinases, which are cell surface molecules that transduce signals for cell growth and differentiation. RET plays a crucial role in neural crest development, and it can undergo oncogenic activation in vivo and in vitro by cytogenetic rearrangement. Mutations in RET are associated with several disorders including multiple endocrine neoplasia, type IIA, multiple endocrine neoplasia, type IIB, Hirschsprung disease, and medullary thyroid carcinoma.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC2757 Plasmid DNA Sequence

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 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 atggcgaaag cgacgtccgg cgccgcaggg ctggggctga agctgatttt
 501  gctcctgccg ctgctaggag aagccccact gggcctctat ttctcaaggg atgcttactg ggagaggctg tatgtagacc agccagctgg cacacctctg
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 701  actggatccg catcaatgag actactggcc ttctctacct caatcagagc ctggaccaca gttcctggga acagctcagc atccgcaatg gtggtttccc
 801  cctgctcacc atcttcctcc aggtctttct ggggtccaca gcccagagag agggagaatg ccattggcca ggctgtaccc gtgtgtactt ctccttcatc
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1701  ggcccgccgc tatgcccaga tcgggaaagt ctgtgtggaa aactgccagg agttcagcgg tgtctccatc cagtacaagc tgcagccttc cagcatcaac
1801  tgcactgccc taggtgtggt cacctcaccc gaggacacct cggggaccct atttgtaaat gacacagagg ccctgcggcg acctgagtgc accaagcttc
1901  agtacacggt ggtagccact gaccggcaga cccgcagaca gacccaggct tcgctagtgg tcactgtgga ggggacatcc attactgaag aagtaggctg
2001  ccccaagtcc tgtgcagtaa acaagaggcg ccccgagtgt gaggaatgtg gtggcctggg ttctccaact ggcaggtgcg agtggcgcca gggagatggt
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2301  gaagaaatgc ttctgcgagc cagaggacag ccagggccca ctgtgtgatg cgctgtgccg cacgatcatc acagctgccc tcttctccct tatcatctcc
2401  atcctgctgt ccatcttctg tgtctgccac caccacaagc atgggcacaa gccgcccatt gcatcagcgg aaatgacctt ctgccggccg gcccagggct
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2601  gtgggaattt cctcggaaga acttagttct tgggaaaact ctgggagaag gcgagtttgg aaaagttgtc aaggccacag ccttccgtct gaaaggccgg
2701  gcaggatata ccacagtggc tgtgaaaatg ctgaaagaaa acgcctccca gagtgagtta cgagacctgc tgtctgagtt caaccttctg aaacaagtca
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2901  ccgtgacagc cgcaagattg ggcctgccta tgtgagcggt ggaggcagcc gcaactccag ctcgctggac cacccagatg aaagggtact gaccatgggt
3001  gacctcatct ccttcgcctg gcagatctcg aggggtatgc agtacttggc agaaatgaag cttgtacatc gggacttagc tgccaggaac atcttggtgg
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3601  cgctccctcc cttccacatg gattgaaaac aaactctatg gcatgtcaga cccgaactgg cctggagaga gtcctgtacc actcacgaga gccgatggca
3701  ctagcactgg gttcccaaga tatgcaaatg atagtgtata tgctaactgg atggtttcac cctcagcggc aaaattaatg gacacatttg atagctaaag
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> RDC2757 Translated Insert Sequence

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 201  svkysllggd slpfrcdpdc levstrwald relrekyvle alcivagpga nketvtlsfp vtvydeddsa ptfsggvgta savvefkrke gtvvatlqvf
 301  dadvvpasge lvrrytntll sgdswaqqtf rvehspietl vqvnnnsvra tmhnykliln rslsisesrv lqlavlvnds dfqgpgaggi lvlhfnvsvl
 401  pvtlnlpray sfpvnkrarr yaqigkvcve ncqefsgvsi qyklqpssin ctalgvvtsp edtsgtlfvn dtealrrpec tklqytvvat drqtrrqtqa
 501  slvvtvegts iteevgcpks cavnkrrpec eecgglgstp grcewrqgdg kgitrnfstc spstrtcpdg hcdavesrda nicpqdclra divggherge
 601  rqgikagygi cncfpdekkc fcepedsqgp lcdalcrtii taalfsliis illsifcvch hhkhghkppi asaemtfcrp aqgfpisyss sgtrrpslds
 701  tenqvpvdsf kipedpkwef prknlvlgkt lgegefgkvv katafrlkgr agyttvavkm lkenasqsel rdllsefnll kqvnhphvik lygacsqdgp
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1101  mvspsaaklm dtfds
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