mProgranulin VersaClone cDNA

Catalog Number: RDC3713

Specifications:

Gene:	*m*Grn
Accession:	NP_032201.3
Insert size:	1783bp
Concentration:	10µg at 0.2µg/µL

*m*Progranulin cDNA Plasmid

Grn granulin [*Mus musculus* (house mouse)]

Also known as: GP88; PEPI; Pgrn; PCDGF; epithelin

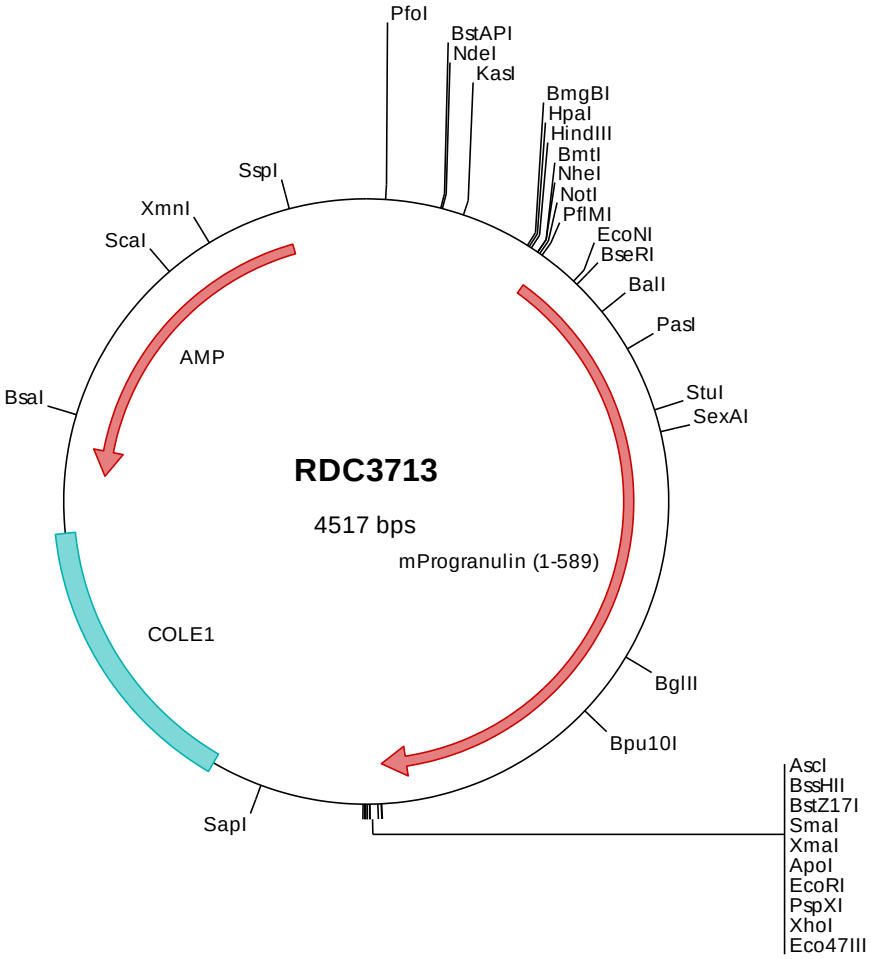
Summary:
Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides named granulin A, granulin B, granulin C, etc. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3713 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 atgtgggtcc tgatgagctg gctggccttc gcggcagggc tggtagccgg
 501  aacacagtgt ccagatgggc agttctgccc tgttgcctgc tgccttgacc agggaggagc caactacagc tgctgtaacc ctcttctgga cacatggcct
 601  agaataacga gccatcatct agatggctcc tgccagaccc atggccactg tcctgctggc tattcttgtc ttctcactgt gtctgggact tccagctgct
 701  gcccgttctc taagggtgtg tcttgtggtg atggctacca ctgctgcccc cagggcttcc actgtagtgc agatgggaaa tcctgcttcc agatgtcaga
 801  taacccctttg ggtgctgtcc agtgtcctgg gagccagttt gaatgtcctg actctgccac ctgctgcatt atggttgatg gttcgtgggg atgttgtccc
 901  atgccccagg cctcttgctg tgaagacaga gtgcattgct gtccccatgg ggcctcctgt gacctggttc acacacgatg cgtttcaccc acgggcaccc
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1301  tggaggtgag ctgccctgaa ggatatacct gctgccgcct caacactggg gcctggggct gctgtccatt tgccaaggcc gtgtgttgtg aggatcacat
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1901  acacctgcaa cgtgaaggcg aggacctgtg agaaggatgt cgactttatc cagcctcccg tgctcctgac cctcggccct aaggttggga atgtggagtg
2001  tggagaaggg catttctgcc atgataacca gacctgttgt aaagacagtg caggagtctg ggcctgctgt ccctacctaa agggtgtctg ctgtagagat
2101  ggacgtcact gttgccccgg tggcttccac tgttcagcca ggggaaccaa gtgtttgcga aagaagattc ctcgctggga catgtttttg agggatccgg
2201  tcccaagacc gctactgtaa aggcgcgcca gtatactcta gagtcgacac ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa tcatggtcat
2301  agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg ggtgcctaat gagtgagcta
2401  actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc aacgcgcggg gagaggcggt
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3701  attaattgtt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacgtt gttgccattg ctacaggcat cgtggtgtca cgctcgtcgt
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3901  cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg gttatggcag cactgcataa ttctcttact gtcatgccat ccgtaagatg cttttctgtg
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4301  aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat tgtctcatga gcggatacat atttgaatgt atttagaaaa
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> RDC3713 Translated Insert Sequence

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 101  qgfhcsadgk scfqmsdnpl gavqcpgsqf ecpdsatcci mvdgswgccp mpqasccedr vhccphgasc dlvhtrcvsp tgthtllkkf paqktnravs
 201  lpfsvvcpda ktqcpddstc celptgkygc cpmpnaiccs dhlhccpqdt vcdliqskcl sknyttdllt klpgypvkev kcdmevscpe gytccrlntg
 301  awgccpfaka vccedhihcc pagfqchtek gtcemgilqv pwmkkviapl rlpdpqilks dtpcddftrc ptnntcckln sgdwgccpip eavccsdnqh
 401  ccpqgftcla qgycqkgdtm vaglekipar qttplqigdi gcdqhtscpv gqtccpslkg swaccqlpha vccedrqhcc pagytcnvka rtcekdvdfi
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