

Specifications:

Gene:	<i>mltga5</i>
Accession:	NP_034707
Insert size:	3175bp
Concentration:	10 μ g at 0.2 μ g/ μ L

mIntegrin α 5 cDNA Plasmid

Itga5 integrin alpha 5
(fibronectin receptor alpha)
[*Mus musculus* (house mouse)]

Also known as: Fnra; VLA5; Cd49e

Summary:

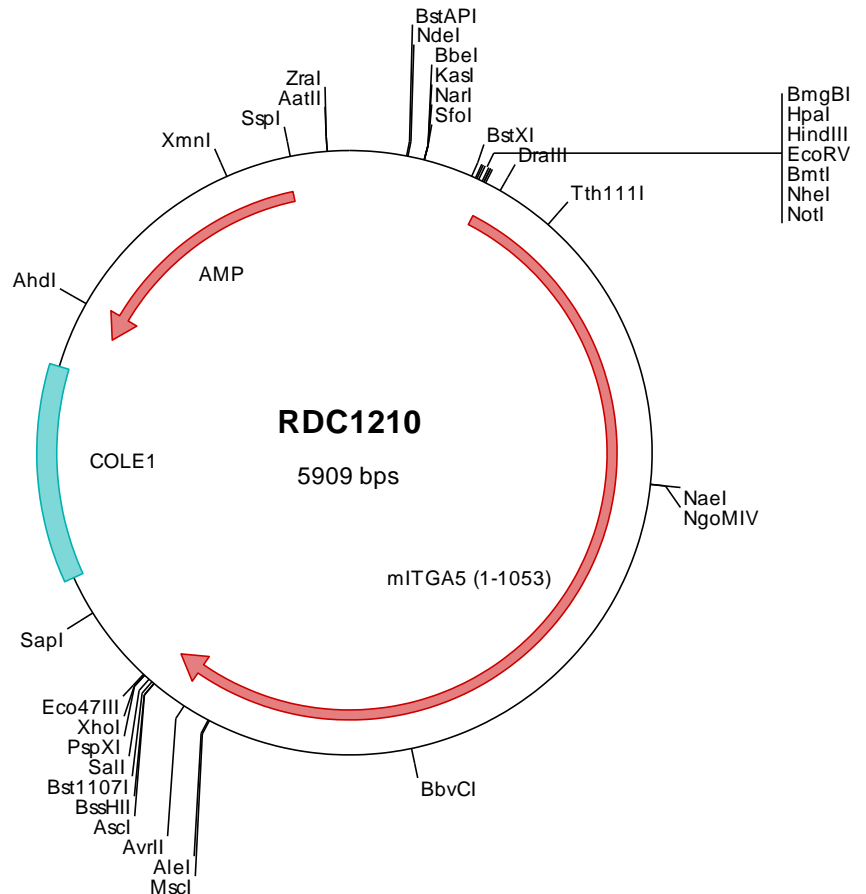
Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. They are known to participate in cell adhesion as well as cell-surface mediated signaling. ITGA5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with the beta 1 subunit to form a fibronectin receptor. Integrin alpha5beta1 may be involved in regulating the metastatic and invasive potential of tumor cells.

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.





> RDC1210 Plasmid DNA Sequence

1 tcgctggttt cggatgatgac ggtgaaaacc tctgacacat gcaactcccg gagacgggtca cagcttctgt gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgcc accatagtcg gtgtgaaata
201 cgcgacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcggggc tcttcgctat
301 tacgcaagct ggcgaaagg ggatgtgctg caagcggatt aagtgggta acggcaggtt ttcccagtc acgactgtgt aaaacgacg ccatggaatt
401 ggagactgtt ttaacaagctt ggatccgata tcgctagcgc ggccgccacc atggggagct ggacgccagc gtcgctcga tctctctcc acgctgtgt
501 gctgctgctg ggccccgacc gctacccgcc gctgctgctc ctgctgtgcct ctgctgtgctg tactgtgctgc gccaaccctc caggttgggg gcttcaacc agacgggag
601 gccccggcgg tgcctccggg gccccccgge tcoctttttg gcttctctgct ggagttttac cggccgggaa gggacggagt cagtgtgctg gttggggcac
701 ccaaggctaa cactagccag ccagggtgac tgcgaagtg gctgtgctat gtgtgtcctt ggggcaaccag tctatccag tgcaccacca tcaatttga
801 cagcaaaagg tcccaggatc tggagctctc actgtacag gccaagggag aggagcctgt ggagtacaag tctgtgagc aggttcggag aacagttcgg
901 gccatggctt cctccattct ggcatgtgct caactgata gctggcgacc agaaaaggac ccacagaaatg acccagtggt cacctgtctc ctctccacg
1001 aaaacttca cgggattctg gatgacgcac ctgtccgcctc agattttgcc agtgacagc ggcagggcta ctgccaaagg ggtctcagtg ctgagttcac
1101 caagactagg cgtgtgtgtc tgggtggacc tgggaagctac tctgtgcaag gccagatcct gtcgccact caagacaga tctcggagct ctattacca
1201 gactatctca tcaaccctgt tcaggggcag ctgcagacc gccaagggcag ctccgctat gatgacagct actgggata ctctgtggtc gttgggtgaa
1301 tcagtgttga tgacacagaa gactttgttg ctggcgctgc caaggggacc ctaccctat gctatgtcac cgtcctaat ggtccagaca tcaactccct
1401 ctacaagctc tcaggagaac agatgcctc ctacttcggc ctactctggg tactcctatg taccaatgga gatgggctag atgacctact gctagggga
1501 cccctgctca tggagcggac agctgatggg agaccctcag aggtggggcag ggtctacatc tabctgcagc gccaccggg catagatccc accccaccc
1601 tcaccctcac tgggcaagat gaggttcagc gattcgggag ctcccttgaca cctctggggg acctggacca agacggctac aatgatgtcg ccattggggc
1701 tccattttgct ggggagccgc agcaggaggt cgtatttata tcccgggag gcccagagag gactagcact aaaccttccc aggttcggag aacagttcgg
1801 gcagctggcc gtaccocaaga ctctctggc tctgcccctc gaggaaggac agatctggat ggcacatggt accctgatct aatctgttga tccctgggtg
1901 tggacaaggc tctggtgtac agagggcggc ccatcatatc tgccagcgca tctctcaaca tcttcccctc catgttcaac ccagaggagc gcagttgacg
2001 caagactagg aactcgtgtc cctgcatcaa ccttagcttc tgctctaaag ctctcgtaaa cctctgtccc gatagaggat gcttcgaggt ggaactccaa
2101 ctggaactggc agaagcaaaa gggaggggctc cggcgggcac tggctcctgac tccaagcag gccaccctta cccagacctt gcttaccag aatggggctc
2201 gggaggactc cagggagatg aagatctacc tcaggaatga atcagaattc agagacaaac tctccccta tcacattgcc ctcaacttct ccttggacc
2301 caaagctccc aagcagacc acttgctccg gccagtctca cactaccaaa gcaaaagcag gatagaggac aagggccaga tctgtctgga cgttgggtga
2401 gacaatatct gtgtgctcga cctgcagctg gatgtgtatg gggagaaa aaatgtgtac ctgggtgaca agaaccgact gaacctgaca tccatgccc
2501 aaaaatctggg tgaggcggtt gctatgaa cggagcttcog ggtcacagcc cctctagagg ccagactgct agacacccc ggaactctc ggaactctc
2601 caagctgagc tggactact ttgctgtgaa ccagagcgcc cagctgtgtg ttcccttggg caacccatg aagggcagca ccaagctctg ccaagctctg
2701 cggttcaactg ttcctcatct tcaagacaca aagaaaacca tccagtttga ctctcagact ctcaagctc aagctgtgat tttcccagc agcgactgga atcctcaaga
2801 ccttcccact ctcgtgggag gctcaagccc aggtctcctc taatgtgtc tccagctcog caagctcogc agctcctca gcccaggtg atcctcaaga
2901 caagcctcag aaggagaa agctgtggccc agctgtccac agctctcagc actctcaaa gactcctca gcccaggtg agctcctca gcccaggtc
3001 agctgtccac aggtcttggg aggccaacag ctccctcag tgaccaaggt gacaggaact agcaactgca cctccaacta ccccccaac tcaaggggccc
3101 tggagtggg tccagagacc ctcccacag aocagaggtt acagagggc agcgggga gttctactgc ctcaagaa ccaagttcga aatgcctga
3201 agccaaagtg ttcaggctgc gctgtgagtt tggggccact gcacggccag agagcgtag agctgcagct catttccag tctgggocaa gacctcttg
3301 cagcggggaac accagcatt tagcttccag tgtgaggtg tatatgaa tcctgaagc ccttaccaga tctctgctcg gcagcttccc caaaagaaac
3401 tccaggttgc cccaggctg agccagag aggcagaagg cagcaagtgt tcccggtgt ggcacctgt ggaactcat cctttggcc tctgtcctc
3501 aggtctgtc atctaccctc tctacaagct aacagttccc tcccactcagg tcccctagg caccagccag gaaaagctc agctcaagcc tccagcccc
3601 tcagatgctt aaaggcgcc cagttacttc tagagtgcac accggggaa tctctgagc gctcgtctct agcttggcgt aatcatggct atagctggtt
3701 cctgtgtgaa atgtttatcc gctcaactt ccaacacaca ctgagccgg agctataaag cagctataaag ggttgcccta ggggtgccta atagtgagc
3801 taattgcgtt gctctcactg cctccgttcc agtcgggaaa cctgtctgtc agctgcatt aatgaaatcgg ccaacggcgc gggagagggc gtttgcgtat
3901 tgggctctct tccgctctcc cgtctactga ctogctgccc tgggtccttgc ggctgcggag agcggatca gctcactcaa agcgggtaat acggttatcc
4001 acagatcaag ggaataccg agaaagaac atgtgagca aaagccagg aaccgtaaaa agccgcgctt agggcggtt tccatagcc
4101 tccgcccccc tgcagagcat cacaaaaatc gagctcaag tcaagagttg cgaaaaccga caggactata aagataccag gcgttcccc ctggaagctc
4201 cctcgtgcgc tctcctgctc gcaccctgcc gcttacggcc tacctgtccc ccttttccc tccgggaagc gtggcgttt cctaatgctc acgctgtag
4301 tatctcaagt ctgtgtaggt cgttccgctc aaagtcggct gttgtcaoga acccccctt cagccccacc gaagcgccct atccggtaac
4401 agtccaaacc ggtaaagcac gactttatgc cactggcagc agccactggt aacaggatta gcagagcgag gtatgtagcc ggtgctacag agttcttga
4501 gtggttgctt aactaccggt acactagag gacagtattt ggtattctgc ctctgtgaa cctagttacc gccagtaacc gatctcaaga agatcctttg
4601 gggaaaacaa ccaccgctgg tagcggttgt tttttttg tccaagcaga gattaccggc atgtacggc caaaaaaggt ctctacagc atccttttaa
4701 cggggtctga cgctcagttg aacgaaaact cacgtaaag gattttgctc atgagattat aacaaaggt cttcacctag atccttttaa attaaaaatg
4801 aagttttaaa tcaactataa gtatatatga gtaaaacttg tctgacagtt accaactgct gatcactatc gacagatctg tctattctgt tctattctgt
4901 tcatccatag tttcctgact ccccgctgct tagataacta cgtatccgga ggccttacca tctgccccca gctgtgcaat gatccgcca gaccoagct
5001 caccggctcc agatttatca gcaataaacc agccagccgg aagggccag cgcagaagtg gtcctgcaac tttatccgcc tccatccag ctattaattg
5101 tggcgggaa gctgagtaga gtagttcgcc agttaaagtt tgtgcgaag ctgttgccat tgtctacagc atcgtggtgt cagctctgct gtttggtatg
5201 gcttcaatga gctccggttc ccaagcatca agggcgatga ctatgacccc catgattcttc aattctctta ctgtcatgcc atccgtaaga tgctttctg
5301 gaagttaagt ggcgctgag ttatcactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga tgctttctg tgactgggtg
5401 gtaactcaac aagctattct gagaatagtg tatkcgccga ccgagttgct ctctggccgc gtaataaccg gaccacatag ccgcaatctt cagaacttca
5501 aaagtctcca tctattggaaa acgcttcttg ggcgaaaaac tctcaaggtat cttaccgctg ttgagatcca gttctgatga acccaactg gaaccaact
5601 gatcttcagc atcttttact ttcaccagc tttctgggtg agcaaaaaa ggaagcaca atgcccga aaagggaata agggcgacac ggaatgttg
5701 aatactcata ctcttctctt tcaatatta ttgaagcatt tatcagggtt atgtctcat gaggcagatc atatttgaat gtttttagaa aaaaaacaa
5801 ataggggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt atcacgagcc
5901 cctttgctc

> RDC1210 Translated Insert Sequence

1 mgswtprspr splhavllrw gprrlppll lllllwpppl vqvgfnldae apavlsppp slfgfsvefy rprgrdgvsvl vgapkantsq pgvlqqgvay
101 vcpwgtspiq cttiqfidskg srilesslys akgeepveyk slqwfgtavr ahgssilaca pplysrtekd pqndpvgtcy lstenfril eyapcrsdfg
201 saagggyccq gfsaeftktg rvvlggpgsy fwggqilsat qeiqisesyyp eylinpvgqg lqtrqassvy ddsylgysva vgefsgdte dfvagvpkn
301 ltygyvtvln gsdihsllynv sgeqmasfyg yavaatdng dglddlvlg pllmertadg rpqevrvyiy ylqrpagidp ylqrpagidp tptlltggd efsrfgsslt
401 plgdldqdg ndvaigapfg geaqqvsvfi fpggpggltst kpsqvlglpw aaartrpddfg salrggrdlid gngypdlivg sfngvdkalv rqrpiisasa
501 sltifpsmf ndpearscslg npsvcinlsf clnasgkhvp nsiqflevelq ldwqkqkgv rralfltskq lllyvtkvtgl lsknlnsq nvsfplsve aqahvslngv
601 rdklspihia lnfslpkpkp mdshgrlpvl hygksried kaqilldceg dnicvpdlql dvygekhhvy lgdknalnl fhaqnlgegg ayeaelrvta
701 pleaeysqlv rhnfnfssl cdyfavnsqr qlvcdlgnpm kagtslwgll rftvphlqdt kktiifdfqi lsknlnsq nvsfplsve aqahvslngv
801 skpeavifpv sdwnpqqdpp keedlpavh hvyelngnv ssiqgvlel ldwqkqkgv lllyvtkvtgl snctsnypn sqglelqpet sphhlgkrea
901 pgrsstaagt qlkcpakc frlrcefgpl hrqesrslql hfrwaktfl greyqpslq ceavyealkm pyqilprqlp qkkllqvatav qwtkaegsnq
1001 vplwiililai lfgllllgll iyvlyklgff krslypygtam ekaqlkppat sda