

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hEMR1            |
| Accession:     | NP_001243182     |
| Insert size:   | 2479bp           |
| Concentration: | 10µg at 0.2µg/µL |

## **hEMR1 cDNA Plasmid**

**EMR1 egf-like module  
containing, mucin-like,  
hormone receptor-like 1  
[ *Homo sapiens* ]**

**Also known as:** TM7LN3

### Summary:

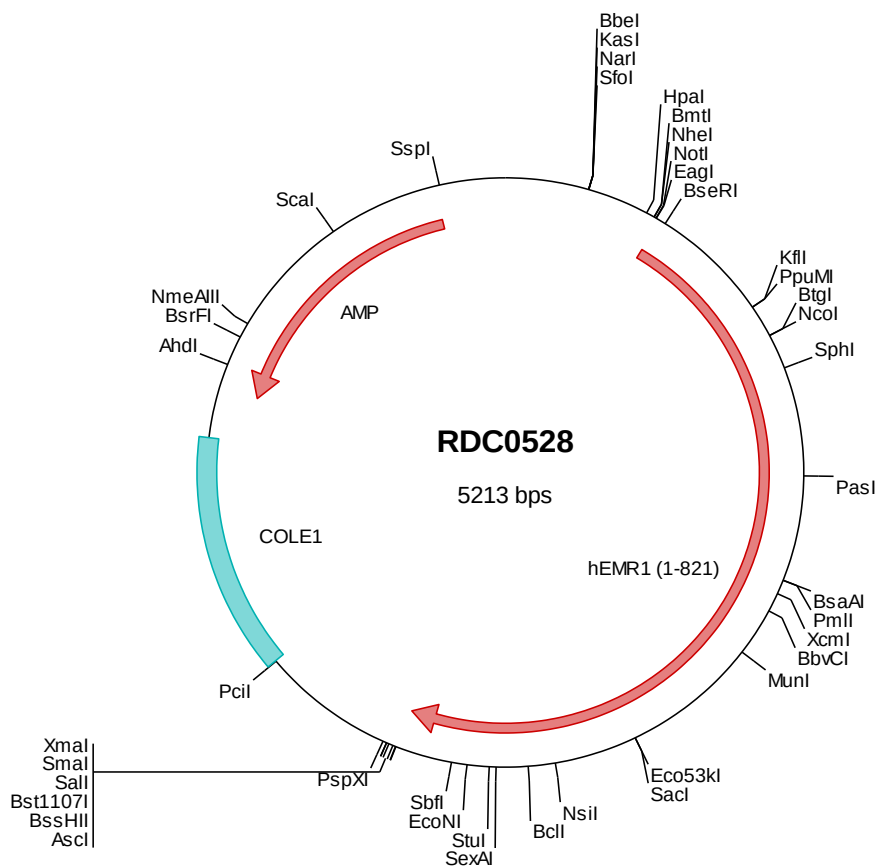
EMR1 is a seven transmembrane receptor with the unique characteristics of multiple EGF modules along with a mucin-like glycoprotein region. It is absent on mononuclear phagocytic cells including monocytes, macrophages, and myeloid dendritic cells. EMR1 is restricted to eosinophilic granulocytes, where expression overlaps with the eotaxin receptor CCR3 and the immunoglobulin-like lectin Siglec-8. Absence on other leukocytes, including basophils, implies that EMR1 is a highly specific marker for eosinophils. Alternate splicing results in multiple transcripts encoding different proteins.

## 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



## > RDC0528 Plasmid DNA Sequence

```

1   tcgcgcggtt cggatgatgac ggtgaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagccc
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagtcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatecgata tcgctagcgc gggcgccacc atgcgtggct tcaacctgct cctcttctgg ggatgtgtgt ttatgcacag
501  ctgggaaggg cacataagac ccacacggaa accaaacaca aagggttaata actgtagaga cagtacottg tgcccagctt atgccacctg caccaataca
601  gtggacagtt actattgcgc ttgcaaacaa ggtctcctgt ccagcaatgg gcaaaatcac ttcaaggatc caggagtgcg atgcaaatgt attgatgaat
701  gtcttcaaaag ccccccagccc ttgtgtccta actcatcctg caaaaaacctg tcagggaggt acaagtgcag ctgttttagat ggtttctctt ctcccactgg
801  aaatgactgg gtcccaggaa agcggggcaa tttctcctgt actgatatac atgagtgcct caccagcagc gtctgccttg agcaattctga ctgtgtcaac
901  tccatgggaa gctacagttg cagctgtcaa gttggattca tctctagaaa ctccacctgt gaagacgtgg atgaatgtgc agatccaaga gcttgcocag
1001 agcatgcaac ttgtaataac actgttgtaa actactcttg tttctgcaac ccaggatttg aatccagcag tggccacttg agtttccagg gtctcaaaag
1101 atcgctgtaa actattgtag aatgcactga aatgtgcccc tttctccttg accagtgacc cactcctggg agctactttt gcacctgcca ccttggtctt
1201 gcaccaagca atggacagtt gaatttcaca gaccaaggag ttggaattgag agatattgat gagtgcgcgc aagatccatc aacctgtggt cctaattcta
1301 tctgcaccaa tgccctgggc tctacagctg gtggctgcac tgcaggcttt catcccaatc cagaaggctc ccgaaagat ggcaacttca gctgcccagg
1401 ggcataatg actgttgtag aagatgtgat acccgatgac aagcagatgc agagtgaaac gcagtgaaac agtttgagag ctctctttgt
1501 gcacaaataa ataactctct cagcgttctg gacaaagtgt gtgaaaataa aacgaccgta gtttctctga agaatacaac tgagagcttt gtcctgtgct
1601 ttaacaaat atccacgtgg actaaattca ccaaggaaga gacgtctctc acactctgga acatttcaga cactcctggg agctactttt gcacctgcca ccttggtctt
1701 ttgaaacccc tcagcaaaata tctctcggac gaatacttag atctgagag acatgcacaa cactcctggg agctactttt gcacctgcca ccttggtctt
1801 ttggacttgg tagccaaggg ggaataagat aagatcgggt gttccacaat tgaggaaatc gaatccacag agaccactgg tgtggctttt gctcctttg
1901 tgggcattga atcggtttta aatgagcgtc tcttcaaaga ccaccaggct ccttgagaca cctctgagat caagctgaag atgaattctc gactgtttgg
2001 atcgctgtaa actgttgtag aatgcactga aatgtgcccc tttctccttg accagtgacc cactcctggg agctactttt gcacctgcca ccttggtctt
2101 gtttctctga gcactgtagt gaagggtgga agatggacat ccttctggctg ttgatctctg gacatcatcg cgggtctctc gcaactacett ttccttgctc gcttctctg
2201 tggcaaatct tgccgtttatc atggcgtctg gggagctcac gatggctgca aactcgaagg ttgtgaatta ctctcagctc cgcaacatca agatgtctga catctgtgca cctctgtgca
2301 gatgtctgtg gaggctgtga tactgttctt gatgtctgca ccagtgtgca gccacagggc tatggaatgc atgtgtgata ctgaggcaga ggtttccag
2401 ttgtgttatg ggtctgcgat gctggtgtgt gtgatctctg acagtgtgca gccacagggc tatggaatgc atgtgtgata ctgaggcaga ggtttccag
2501 ggttcatctg gactttctgt gggccagttt gcacagttat agtgatcaac tcccttcttc tgacctggac cttgtggata ctgaggcaga ggtttccag
2601 ttgttaatgc gaagcttcaa cgctaaaaga cccagggtta cccagcttca aggccttctc ccagctcttc atccctgggt cgtcctgggt gtggggcatt
2701 tttcagattg gacctgtggc aggtgtcatg gcttaacctg tcaactggaa gacgaagccc agctccactg cccagacctc aaggattctg ctgtctctca tgccatccgc
2801 gccaggtacg agaagataac aagaggtgga tcaactggaa gacgaagccc agctccactg cccagacctc aaggattctg ctgtctctca tgccatccgc
2901 ttccaaagcc ggcctaaaggc ggcctagat actctagagt cgacaccggg ggaattcttc gagcgctcgt ctctagcttg gcgtaaatca ggtcatagct
3001 gtttctctgt tgaattgtt atccgctcac aattccacac aacatacag cgggaagcat aaagtgtaaa gcctgggggt cctaattgag
3101 acattaatg cgttgccctc tctgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc
3201 tatgtggcgc ctcttcgcgt tctgcgtcga ctgactcgtc gcgctcgcgt gttcgctcgc atcagctcac tcaaaggcgg taatacgggt
3301 atccacagaa tcaggggata acgcaggaata gaacatgtga gccaaaaggc agcaaaaaggc caggaaacctg aaaaaggcgg cgttgcctgc tttttccat
3401 aggcctcgcc cccctgacga gcatcacaaa aatcgacgct caagtacag gtggcgaaac ccgacaggac tataagata caggcgcttt cccctggaa
3501 gctcctcgtc gcgctctctc gtttcgaccc tgccgtcttac gcgctcttac cctctcttcc tccctcttcc cgttctcaat gctcagctg
3601 taggtatctc agttcgtgtg aggtcgttct cctcagcttc ggtctgtgtg acgaaccccc cgttcagccc gaccgctgcg ccttatccg cttatctcat
3701 cttagtccca acccggttaag acacgactta tcgcactggt cgcagccacc ttgtaaacagg attagcagag cgaggtagt taaagagttg
3801 tgaagtgtg gcctaaactac ggtacacta gaaggacagt atttgttatc tgcgctctg tgaagccagt taccttcgga aaaagagttg gtatgcttg
3901 atccggcaaa caaaccacgc ctggtagcgg ttggtttttt gtttgcaagc agcagattac gcgcagaaaa aaaggatctc aagaagatcc ttgatcttt
4001 tctacgggtg ctacgctca gtggacgaa aactcacgtt aagggtattt ggtcatgaga ttatcaaaaa ggatcttca ctgatctct ttaaattaaa
4101 aatgaagtgt taaataatc taaagtatat atgagtaaac ttgtctgac agttaccaat gcttaatacag gttaggcaact atctcagcga tctgtctatt
4201 tctgtatctc atagtgtcct gactccccgt cgtgtagata actacgatac gggagggcct accatctgct cccagtgctg caatgatacc gcgagacca
4301 cgctcacagg ctccagattt atcagcaata aaccagccag ccggaaggcc agtggtcctg agtggtcctg caactttatc cgcctccatc cagtctatta
4401 attgttgccg ggaagctaga gtaagtatt cgccagttaa tagtttgcgc aacgttgttg ccattgtctac aggcacgtg gtgtcacgct cgtcgtttg
4501 tatggcttca ttcagctcgc gttcccaacy atcaaggcga ttccatagtt cccccattgt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt
4601 gtgagtagta agttggccgc agtggtatca ctcatgttta tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg
4701 gtgagtactc aaccaagtca tttctgaga atgtgatgct gcgaccaggt tgctcttgcc cggcgtcaat acgggataat accgcggcac atagcagaac
4801 tttaaaagt ctcactatgt gaaaacgctt ttccggggcg aaactctcaa ggtatttacc gctgttgaga tccagttcga tgtaaccacac tcgtgcaccc
4901 aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaaaggcg aataaggcgg acacggaaat
5001 gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg atacatat ttgaatgtattt agaaaaataa
5101 acaaataggg gttccgcgca catttccccg aaaagtcca cctgacgtct aagaaaacct tattatcatg acattaaact ataaaaatag gcgtatcacg
5201 aggccttttc gtc

```

## > RDC0528 Translated Insert Sequence

```

1   mrgfnllllf gccvmhsweg hlrptrkpt kgnncrdstl cpayatcctnt vdsyycackg gflssnqnh fkdpgvrckd idecsqsppg cgpnsccnln
101  sgrykcsclw gfssptgndw vpgkpgnfsc tdinecltss vcpehscdvn smgsyscsqg vglfmrnstc edvdecadpr acpehatcnn tvgnyscfcn
201  pgfesssghl sfqglkasce didectemcp instcctnpg syfctchpgf apsnqqlnft dggvecrdid ecrqdpstcg pnsictnalg syscgciagf
301  hpnpegsqkd gnfscqrulf kckedvipdn kqigccqegt avkpayvsvc aginnifsvl dkvckenktv vslknttesf vpvlkqistw tkftkeetss
401  latvflesve smtlasfwkp sanitpavrt eyldieskvi nkecseenvt ldlvakgdkm kigcstiees estettgvaf vsfvgmesvl nerffkdhqa
501  plttseiklk mnsrvvggim tgekkdgsfd piiytleniq pkqkferpic vswstdvkgg rwtsgfcvil easetytics cnqmanlavi masgeltmgc
601  aiaagflhyl flacffwmlv eavilfmlvr nlkvnyfss rnikmlhica fgyglpmlvv visasvppqg ygmhncrwnl tetgfwiwsl gpvcctvivin
701  sllltwtlwi lrqrlssvna evstlkdtrl ltfkafaqlf ilgcswwlgi fqigpvagvm aylftiinsl qgafiflihc llnqgvreey krwitgktpk
801  ssqsqtsril lssmpsaskt g

```