*h*NRAMP2/SLC11A2 VersaClone cDNA

Catalog Number: RDC0500

Specifications:

Gene:	*h*SLC11A2
Accession:	NP_001167596
Insert size:	1785bp
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

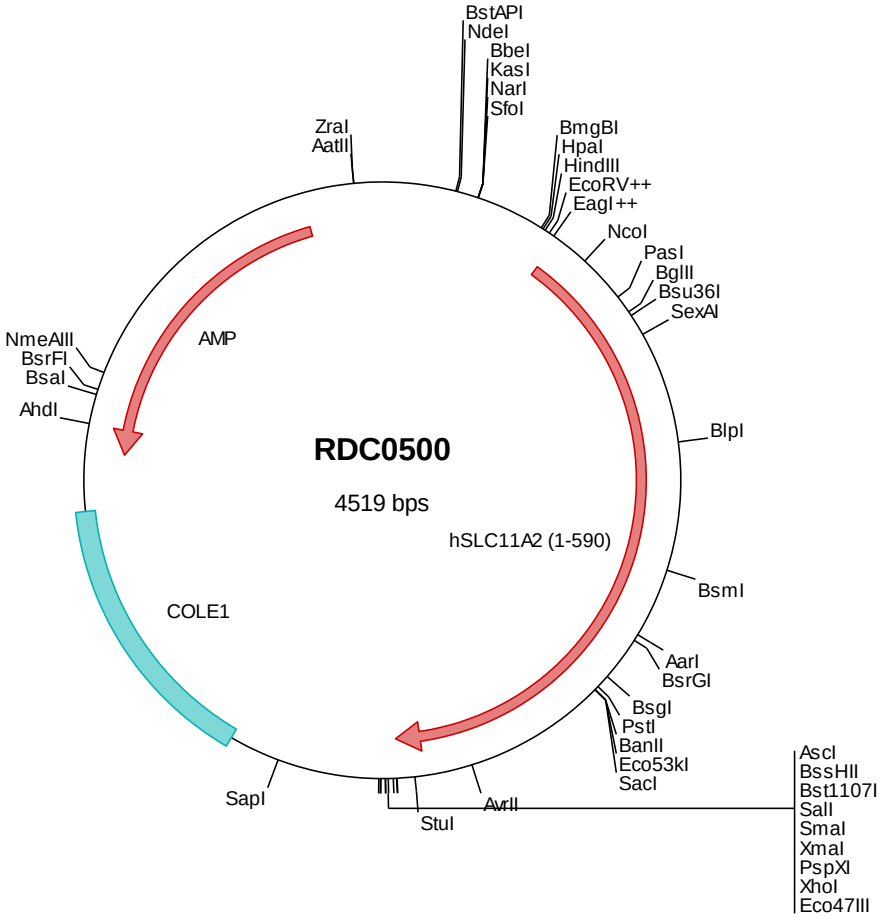
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*NRAMP2/SLC11A2 cDNA Plasmid

SLC11A2 solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2 [*Homo sapiens*]

Also known as: DCT1; DMT1; NRAMP2

Summary:
SLC11A2 is a divalent metal transporter (DMT), which carries iron, manganese, cobalt, nickel, cadmium, lead, copper, and zinc. It participates in cellular iron absorption at the luminal surface of the duodenum as well as in other areas of the body. Mutations in SLC11A2 are associated with hypochromic microcytic anemia with iron overload. Multiple transcript variants encoding different isoforms have been identified.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0500 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 atgaggaaga agcagctgaa gacggaggca gctccacact gtgaactaaa
 501  atcatattct aagaactcag ccactcaggt atccaccatg gtgctgggtc ctgaacagaa gatgtcagat gacagtgttt ctggagatca tggggagtct
 601  gccagtcttg gtaacatcaa ccctgcctat agtaatccct ctctttcaca gtcccctggg gactcagagg agtacttcgc cacttacttt aatgagaaga
 701  tctccattcc tgaggaggag tactcttgtt ttagctttcg taaactctgg gctttcaccg gaccaggttt tcttatgagc attgcctacc tggatccagg
 801  aaatattgaa tccgatttgc agtctggagc agtggctgga tttaagttgc tctggatcct tctgttggcc acccttgtgg ggctgctgct ccagcggctt
 901  gcagctagac tgggagtggt tactgggctg catcttgctg aagtatgtca ccgtcagtat cccaaggtcc cacgagtcat cctgtggctg atggtggagt
1001  tggctatcat cggctcagac atgcaagaag tcattggctc agccattgct atcaatcttc tgtctgtagg aagaattcct ctgtggggtg gcgttctcat
1101  caccattgca gatacttttg tatttctctt cttggacaaa tatggcttgc ggaagctaga agcatttttt ggctttctca tcactattat ggccctcaca
1201  tttggatatg agtatgttac agtgaaaccc agccagagcc aggtactcaa gggcatgttc gtaccatcct gttcaggctg tcgcactcca cagattgaac
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1401  agttcgagaa gccaataagt acttttttcat tgaatcctgc attgcactct ttgtttcctt catcatcaat gtctttgttg tctcagtctt tgctgaagca
1501  ttttttggga aaaccaacga gcaggtggtt gaagtctgta caaataccag cagtcctcat gctggcctct ttcctaaaga taactcgaca ctggctgtgg
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1701  gacaggaacc tattctggcc agtttgtcat ggagggattc ctgaacctaa agtggtcacg ctttgcccga gtggttctga ctcgctctat tgccatcatc
1801  cccactctgc ttgttgctgt cttccaagat gtagagcatc taacagggat gaatgacttt ctgaatgttc tacagagctt acagcttccc tttgctctca
1901  tacccatcct cacatttacg agcttgcggc cagtaatgag tgactttgcc aatggactag gctggcggat tgcaggagga atcttggtcc ttatcatctg
2001  ttccatcaat atgtactttg tagtggttta tgtccgggac ctagggcatg tggcattata tgtggtggct gctgtggtca gcgtggctta tctgggcttt
2101  gtgttctact tgggttggca atgtttgatt gcactgggca tgtccttcct ggactgtggg catacggtaa gcatctctaa aggcctgctg acagaagaag
2201  ccacccgtgg ttacgttaaa taaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt aatcatggtc
2301  atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc
2401  taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg
2501  gtttgcgtat tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa aggcggtaat
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2701  ttccataggc tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag gcgtttcccc
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2901  acgctgtagg tatctcagtt cggtgtaggt cgttcgctcc aagctgggct gtgtgcacga acccccccgtt cagcccgacc gctgcgcctt atccggtaac
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3601  gacccacgct caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac tttatccgcc tccatccagt
3701  ctattaattg ttgccgggaa gctagagtaa gtagttcgcc agttaatagt ttgcgcaacg ttgttgccat tgctacaggc atcgtggtgt cacgctcgtc
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4001  tgactggtga gtactcaacc aagtcattct gagaatagtg tatgcggcga ccgagttgct cttgcccggc gtcaatacgg gataataccg cgccacatag
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4401  aaataaacaa atagggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt
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> RDC0500 Translated Insert Sequence

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 201  inllsvgrip lwggvlitia dtfvflfldk yglrkleaff gflitimalt fgyeyvtvkp sqsqvlkgmf vpscsgcrtp qieqavgivg avimphnmyl
 301  hsalvksrqv nrnnkqevre ankyffiesc ialfvsfiin vfvvsvfaea ffgktneqvv evctntssph aglfpkdnst lavdiykggv vlgcyfgpaa
 401  lyiwavgila agqsstmtgt ysgqfvmegf lnlkwsrfar vvltrsiaii ptllvavfqd vehltgmndf lnvlqslqlp falipiltft slrpvmsdfa
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