*h*SLC22A4 VersaClone cDNA

Catalog Number: RDC0489

Specifications:

Gene:	*h*SLC22A4
Accession:	NP_003050
Insert size:	1669bp
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

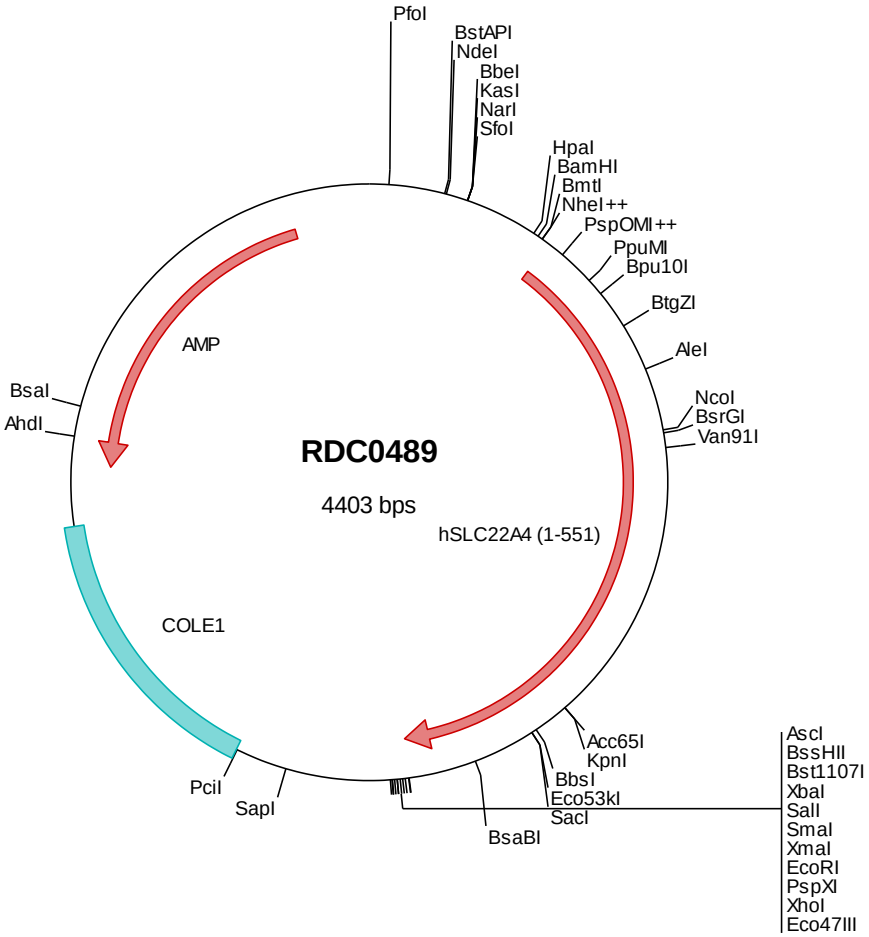
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*SLC22A4 cDNA Plasmid

SLC22A4 solute carrier family 22 (organic cation/ergothioneine transporter), member 4 [*Homo sapiens*]

Also known as: OCTN1

Summary:
Polyspecific organic cation transporters are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. SLC22A4 is an organic cation transporter and integral plasma membrane protein containing eleven putative transmembrane domains as well as a nucleotide-binding site motif. Transport by SLC22A4 is at least partially ATP-dependent. SLC22A4 may play a role in Crohn's disease.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0489 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 atgcgtgact acgacgaggt gatcgccttc ctgggcgagt gggggccctt
 501  ccagcgcctc atcttcttcc tgctcagcgc cagcatcatc cccaatggct tcaatggtat gtcagtcgtg ttcctggcgg ggaccccgga gcaccgctgt
 601  cgagtgccgg acgccgcgaa cctgagcagc gcctggcgca acaacagtgt cccgctgcgg ctgcgggacg gccgcgaggt gccccacagc tgcagccgct
 701  accggctcgc caccatcgcc aacttctcgg cgctcgggct ggagccgggg cgcgacgtgg acctggggca gctggagcag gagagctgcc tggatggctg
 801  ggagttcagc caggacgtct acctgtccac cgtcgtgacc gagtggaatc tggtgtgtga ggacaactgg aaggtgcccc tcaccacctc cctgttcttc
 901  gtaggcgtgc tcctcggctc cttcgtgtcc gggcagctgt cagacaggtt tggcaggaag aacgttctct tcgcaaccat ggctgtacag actggcttca
1001  gcttcctgca gattttctcc atcagctggg agatgttcac tgtgttattt gtcatcgtgg gcatgggcca gatctccaac tatgtggtag ccttcatact
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1201  tacttcatca gagactggcg gatgctgctg ctggcgctga cggtgccggg agtgctgtgt gtcccgctgt ggtggttcat tcctgaatct ccccgatggc
1301  tgatatccca gagaagattt agagaggctg aagatatcat ccaaaaagct gcaaaaatga acaacatagc tgtaccagca gtgatatttg attctgtgga
1401  ggagctaaat cccctgaagc agcagaaagc tttcattctg gacctgttca ggactcggaa tattgccata atgaccatta tgtctttgct gctatggatg
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1601  cttacattac agcctggctg ctattgcgaa cgctgcccag gcgttatatc atagctgcag tactgttctg gggaggaggt gtgcttctct tcattcaact
1701  ggtacctgtg gattattact tcttatccat tggtctggtc atgctgggaa aatttgggat cacctctgct ttctccatgc tgtatgtctt cactgctgag
1801  ctctacccaa ccctggtcag gaacatggcg gtgggggtca catccacggc ctccagagtg ggcagcatca ttgcccccta ctttgtttac ctcggtgctt
1901  acaacagaat gctgccctac atcgtcatgg gtagtctgac tgtcctgatt ggaatcctca ccctttttt ccctgaaagt ttgggaatga ctcttccaga
2001  aaccttagag cagatgcaga aagtgaaatg gttcagatct gggaaaaaaa caagagactc aatggagaca gaagaaaatc ccaaggttct aataactgca
2101  ttctaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg
2201  tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg
2301  cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattgggcg
2401  ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa
2501  tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc
2601  cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac tataaagata ccaggcgttt cccccctggaa gctccctcgt
2701  gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc
2801  agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaaccccc cgttcagccc gaccgctgcg ccttatccgg taactatcgt cttgagtcca
2901  acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag cgaggtatgt aggcggtgct acagagttct tgaagtggtg
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3101  caaaccaccg ctggtagcgg tggttttttt gtttgcaagc agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt
3201  ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcac ctagatcctt ttaaattaaa aatgaagttt
3301  taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc
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3501  ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg caactttatc cgcctccatc cagtctatta attgttgccg
3601  ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg ccattgctac aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca
3701  ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt gtcagaagta
3801  agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc
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4001  ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt
4101  cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg acacggaaat gttgaatact
4201  catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaatagggg
4301  gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg acattaacct ataaaaatag gcgtatcacg aggccctttc
4401  gtc
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> RDC0489 Translated Insert Sequence

```
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 101  rdvdlgqleq escldgwefs qdvylstvvt ewnlvcednw kvplttslff vgvllgsfvs gqlsdrfgrk nvlfatmavq tgfsflqifs iswemftvlf
 201  vivgmgqisn yvvafilgte ilgksvriif stlgvctffa vgymllplfa yfirdwrmll laltvpgvlc vplwwfipes prwlisqrrf reaediiqka
 301  akmnniavpa vifdsveeln plkqgkafil dlfrtrniai mtimslllwm ltsvgyfals ldapnlhgda ylncflsali eipayitawl llrtlprryi
 401  iaavlfwggg vllfiqlvpv dyyflsiglv mlgkfgitsa fsmlyvftae lyptlvrnma vgvtstasrv gsiiapyfvy lgaynrmlpy ivmgsltvli
 501  giltlffpes lgmtlpetle qmqkvkwfrs gkktrdsmet eenpkvlita f
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