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Product datasheet for SC313571

HCP1 (SLC46A1) (NM_080669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCP1 (SLC46A1) (NM_080669) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCP1
Synonyms:	G21; HCP1; PCFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC313571 representing NM_080669.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGGGAGCGCGAGCCCCCCGGAAAAGCCCCGCGCCCGCCCTGCGGCTGCCGTGCTGTGCCGGGGC
CCGGTAGAGCCGCTGGTCTTCCTGGCCAACTTTGCCTTGGTCCTGCAGGGCCCGCTCACCACGCAGTAT
CTGTGGCACCGCTTCAGCGCCGACCTCGGCTACAATGGCACCCGCCAAAGGGGGGGCTGCAGCAACCGC
AGCGCGGACCCCACCATGCAGGAAGTGGAGACCCTTACCTCCCACTGGACCCTCTACATGAACGTGGGC
GGCTTCCTGGTGGGGCTCTTCTCGTCCACCCTGCTGGGAGCTTGGAGCGACAGTGTGGGCCGCCGCCCG
CTGCTAGTGCTGGCCTCGCTGGGCCTGCTGCTCCAGGCCCTAGTGTCCGTTTTTGTGGTGCAGCTGCAG
CTCCACGTCGGCTACTTCGTGCTGGGTCGCATCCTTTGTGCCCTCCTCGGCGACTTCGGTGGCCTTCTG
GCTGCTAGCTTTGCGTCCGTGGCAGATGTCAGCTCCAGTCGCAGCCGCACCTTCCGGATGGCCCTGCTG
GAAGCCAGCATCGGGGTGGCTGGGATGCTGGCAAGCCTCCTCGGGGGCCACTGGCTCCGGGCCCAGGGT
TATGCCAACCCCTTCTGGCTGGCCTTGGCCTTGCTGATAGCCATGACTCTCTATGCAGCTTTCTGCTTT
GGTGAGACCTTAAAGGAGCCAAAGTCCACCCGGCTCTTCACGTTCCGTCACCACCGATCCATTGTCCAG
CTCTATGTGGCTCCCGCCCCAGAGAAGTCCAGGAAACATTTAGCCCTCTACTCACTGGCCATCTTCGTG
GTGATCACTGTGCACTTTGGGGCCCAGGACATCTTAACCCTTTATGAACTAAGCACACCCCTCTGCTGG
GACTCCAAACTAATCGGCTATGGTTCTGCAGCTCAGCATCTCCCCTACCTCACCAGCCTGCTGGCCCTG
AAGCTCCTGCAGTACTGCCTGGCCGATGCCTGGGTAGCTGAGATCGGCCTGGCCTTCAACATCCTGGGG
ATGGTGGTCTTTGCCTTTGCCACTATCACGCCTCTCATGTTCACAGGATATGGGTTGCTTTTCCTGTCA
TTAGTCATCACACCTGTCATCCGGGCTAAACTCTCCAAGCTGGTGAGAGAGACAGAGCAGGGTGCTCTC
TTTTCTGCTGTGGCCTGTGTGAATAGCCTGGCCATGCTGACGGCCTCCGGCATCTTCAACTCACTCTAC
CCAGCCACTCTGAACTTTATGAAGGGGTTCCCCTTCCTCCTGGGAGCTGGCCTCCTGCTCATCCCGGCT
GTTCTGATTGGGATGCTGGAAAAGGCTGATCCTCACCTCGAGTTCCAGCAGTTTCCCCAGAGCCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_080669

Insert Size: 1380 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_080669.5
RefSeq Size:	6510 bp
RefSeq ORF:	1380 bp
Locus ID:	113235
UniProt ID:	Q96NT5
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
MW:	49.8 kDa
Gene Summary:	This gene encodes a transmembrane proton-coupled folate transporter protein that facilitates the movement of folate and antifolate substrates across cell membranes, optimally in acidic pH environments. This protein is also expressed in the brain and choroid plexus where it transports folates into the central nervous system. This protein further functions as a heme transporter in duodenal enterocytes, and potentially in other tissues like liver and kidney. Its localization to the apical membrane or cytoplasm of intestinal cells is modulated by dietary iron levels. Mutations in this gene are associated with autosomal recessive hereditary folate malabsorption disease. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2013] Transcript Variant: This variant (1, also known as HCP-1A) encodes the longer protein (isoform 1).