

Product datasheet for **SC329938**

HCP1 (SLC46A1) (NM_001242366) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCP1 (SLC46A1) (NM_001242366) Human Untagged Clone
Tag: Tag Free
Symbol: HCP1
Synonyms: G21; HCP1; PCFT
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329938 representing NM_001242366.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGGGGAGCGAGCCCCCGAAAAGCCCCGCGCCCGCCTGCGGGTGCCGTGCTGTGCCGGGGC
CCGGTAGAGCCGCTGGTCTTCTGGCCAACTTTGCCTTGGTCTGCAGGGCCCGCTACCACGCAGTAT
CTGTGGCACCCTTACAGCGCCGACCTCGGCTACAATGGCACCCGCAAAGGGGGGGCTGCAGCAACCGC
AGCGCGGACCCACCATGCAGGAAGTGGAGACCCTTACCTCCACTGGACCCTTACATGAACGTGGGC
GGCTTCTGGTGGGGCTTCTCGTCCACCCTGCTGGGAGCTTGGAGCGACAGTGTGGCCGCCGCCCG
CTGCTAGTGTGGCCTCGCTGGGCTGCTGCTCCAGGCCCTAGTGTCCGTTTTTGTGGTGCAGCTGCAG
CTCCACGTCGGCTACTTGTGTGGGTGCGATCCTTTGTGCCCTCCTCGGCGACTTCGGTGGCCTTCTG
GCTGCTAGCTTTGCGTCCGTGGCAGATGTCAGCTCCAGTCGCAGCCGCACCTCCGGATGGCCCTGCTG
GAAGCCAGCATCGGGGTGGCTGGGATGCTGGCAAGCCTCCTCGGGGGCCACTGGCTCCGGGCCAGGGT
TATGCCAACCCCTTCTGGCTGGCCTTGGCCTTGTGATAGCCATGACTCTCTATGCAGCTTTCTGCTTT
GGTGAGACCTTAAGGAGCCAAAGTCCACCCGGCTTTCACGTTCCGTACCACCGATCCATTGTCCAG
CTCTATGTGGCTCCCGCCCCAGAGAAGTCCAGGAAACATTTAGCCCTCTACTCACTGGCCATCTTCGTG
GTGATCACTGTGCACTTTGGGGCCAGGACATCTTAACCCTTTATGAACAAAGCACACCCCTCTGCTGG
GACTCCAAACTAATCGGCTATGGTCTGCAGCTCAGCATCTCCCTACCTACCAGCCTGTGGCCCTG
AAGCTCCTGCAGTACTGCCTGGCCGATGCCTGGGTAGCTGAGATCGGCCCTGGCCTTCAACATCCTGGGG
ATGGTGGTCTTTGCCCTTGGCACTATCACGCTCTCATGTTACAGGTGCTCTTTTTCTGCTGTGGCC
TGTGTGAATAGCCTGGCCATGCTGACGGCCTCCGGCATCTTCAACTCACTCTACCAGCCACTCTGAAC
TTTATGAAGGGTTCCCTTCTCCTGGGAGCTGGCCTCCTGCTCATCCCGGCTGTTCTGATTGGGATG
CTGAAAAGGCTGATCCTCACCTCGAGTCCAGCAGTTTCCCGAGAGCCCTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001242366
Insert Size: 1296 bp



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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).
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:	<ol style="list-style-type: none">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_001242366.2
RefSeq Size:	6426 bp
RefSeq ORF:	1296 bp
Locus ID:	113235
UniProt ID:	Q96NT5
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
MW:	46.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2, also known as HCP-1B) lacks an in-frame coding exon compared to variant 1. This results in a shorter isoform (2) missing an internal protein segment (containing one of the transmembrane domains) compared to isoform 1. This isoform was shown to have a different subcellular localization compared to the longer isoform 1 (PMID:17947394).</p>