

Product datasheet for **RG232708**

HCP1 (SLC46A1) (NM_001242366) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCP1 (SLC46A1) (NM_001242366) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC46A1
Synonyms: G21; HCP1; PCFT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232708 representing NM_001242366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGGGAGCGGAGCCCCCGAAAAGCCCCGCGCCCGCCCTGCGGCTGCCGTGCTGTGCCGGGGCC
 CGGTAGAGCCGCTGGTCTTCTGGCCAACCTTGCCTTGGTCTGCAGGGCCGCTCACCACGAGTATCT
 GTGGCACCCTCAGCGCCGACCTCGGCTACAATGGCACCCGCAAGGGGGGGTGCAGCAACCGCAGC
 GCGGACCCACCATGCAGGAAGTGGAGACCTTACCTCCCACTGGACCCTCTACATGAACGTGGGCGGT
 TCCTGGTGGGCTCTTCTCGTCCACCCTGCTGGGAGCTTGGAGCGACAGTGTGGCCGCGCCCGCTGCT
 AGTGTGGCTCGCTGGGCTGCTGCTCCAGGCCCTAGTGTCCGTTTTGTGGTGCAGCTGCAGTCCAC
 GTCGGCTACTTCGTGCTGGGTCGCATCCTTTGTGCCCTCCTCGGCGACTTCGGTGGCCTTCTGGTGCTA
 GCTTTGCGTCCGTGGCAGATGTCAGCTCCAGTCGAGCCGACCTTCCGGATGGCCCTGTGGAAGCCAG
 CATCGGGTGGCTGGGATGCTGGCAAGCCTCCTCGGGGGCCACTGGCTCCGGGCCAGGGTTATGCCAAC
 CCCTTCTGGCTGGCCTTGGCCTTGTGATAGCCATGACTCTCTATGCAGCTTTCTGCTTTGGTGAGACCT
 TAAAGGAGCCAAAGTCCACCCGGCTCTTACGTTCCGTACCACCGATCCATTGTCCAGCTCTATGTGGC
 TCCCGCCCCAGAGAAGTCCAGGAAACATTTAGCCCTTACTCACTGGCCATCTTCGTGGTGTACTGTG
 CACTTTGGGGCCAGGACATCTTAACCCCTTATGAACAAAGCACACCCCTCTGCTGGGACTCCAACTAA
 TCGGCTATGTTCTGCAGCTCAGCATCTCCCTACCTACCAGCCTGCTGGCCCTGAAGCTCCTGCAGTA
 CTGCCTGGCCGATGCCTGGGTAGCTGAGATCGGCTGGCCTTCAACATCCTGGGGATGGTGGTCTTTGCC
 TTTGCCACTATCACGCTCTCATGTTACAGGTGCTCTTTTTCTGCTGTGGCCTGTGTAATAGCCTGG
 CCATGCTGACGGCTCCGGCATCTCAACTCACTCTACCAGCCACTCTGAACCTTATGAAGGGTTCC
 CTTCTCTGGGAGCTGGCCTCTGCTCATCCCGGCTGTTCTGATTGGGATGCTGAAAAGGCTGATCCT
 CACCTCGAGTTCAGCAGTTTCCCCAGAGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232708 representing NM_001242366
 Red=Cloning site Green=Tags(s)

MEGSASPPEKPRARPAAVLCRGPVEPLVFLANFALVLQGPLTTQYLWHRFSADLGYNGTRQPGGCSNRS
 ADPTMQEVETL TSHWTL YMNVGGLVGLFSSTLLGAWSDSVGRRPLLVLASLGLLLQALVSFVVLQLH
 VGYFVLGRILCALLGDFGGLLAASFASVADVSSRSRFRMALLEASIGVAGMLASLLGGHWRQAQGYAN
 PFWLALALLIAMTLYAFCFGETLKEPKSTRLF TFRHRSIVQL YVAPAPEKSRKHLALYSLAIFVVITV
 HFGAQDILTLYELSTPLCWD SKL IGYGSAQHLPYLTSL LALKLLQYCLADAWVAEIGLAFNILGMVVFA
 FATITPLMFTGALFSAVACVNSLAML T ASGIFNSLYPATL NFMKGF PFLGAGLLLI PAVLIGMLEKADP
 HLEFQQFPQSP

TRTRPLE - GFP Tag - V

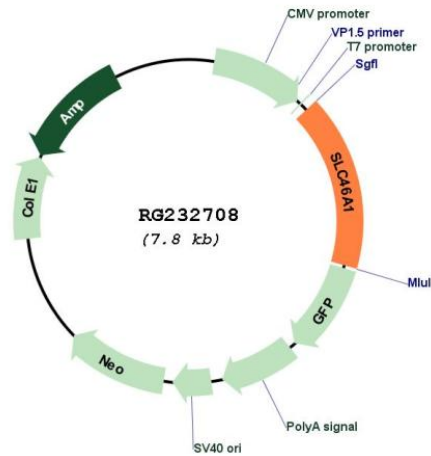
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001242366

ORF Size:	1293 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001242366.3
RefSeq Size:	6426 bp
RefSeq ORF:	1296 bp
Locus ID:	113235
UniProt ID:	Q96NT5
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
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]