

Product datasheet for **SC217423**

GTP cyclohydrolase 1 (GCH1) (NM_000161) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GTP cyclohydrolase 1 (GCH1) (NM_000161) Human 3' UTR Clone
Symbol:	GTP cyclohydrolase 1
Synonyms:	DYT5; DYT5a; DYT14; GCH; GTP-CH-1; GTPCH1; HPABH4B
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000161
Insert Size:	2000 bp



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Insert Sequence: >SC217423 3'UTR clone of NM_000161
 The sequence shown below is from the reference sequence of NM_000161. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGAGTTCCTGACTCTCATTAGGAGCTGAGCTTCATTCAAGTGTGTGCGTTGGTTGCCGATCGTACT
GCCAGTAGCATTGTCTGTCTGTCCGGTCTTGTGTTGTACATTCCATTTTCAATTGTTACAGATGTGAAC
TTATTCCTTGTCACTAATTATATTTAAATTTATTTCTAGGAAGTCAAATAAATAATAAAGGGTTGAG
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CACAAAACCACTGCCAGATAACCAGAGGGGCTGGGAAGGGAGAAGAATTAGTGTATTTTTTCAAATA
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ATCCACAGGCTGTTGCTTATTAGTAAATGCAAAGTAATGACTTTGTCTGTTTTACTCTAGTCTTTAGT
ACTTCAAATACCTTTTCATATCCATGATCTTGAGTCCATTTGGGGGATTTTTAAGAAATTTGATGTAT
TTCAATACACTGTTCAAATTAATTTGTTAATTTTATGTATGAGTATGTATGTTCTGAAGTGGTC
ACGCGTAAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000161.3](#)

Summary:

This gene encodes a member of the GTP cyclohydrolase family. The encoded protein is the first and rate-limiting enzyme in tetrahydrobiopterin (BH4) biosynthesis, catalyzing the conversion of GTP into 7,8-dihydroneopterin triphosphate. BH4 is an essential cofactor required by aromatic amino acid hydroxylases as well as nitric oxide synthases. Mutations in this gene are associated with malignant hyperphenylalaninemia and dopa-responsive dystonia. Several alternatively spliced transcript variants encoding different isoforms have been described; however, not all variants give rise to a functional enzyme. [provided by RefSeq, Jul 2008]

Locus ID:

2643

MW:

77.8