

## Product datasheet for **SC212063**

### GTP cyclohydrolase 1 (GCH1) (NM\_001024071) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	GTP cyclohydrolase 1 (GCH1) (NM_001024071) 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_001024071
Insert Size:	1052 bp
Insert Sequence:	>SC212063 3'UTR clone of NM_001024071 The sequence shown below is from the reference sequence of NM_001024071. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTGGTTGAAGCAACGTCTGCAGAACCATAGCTTCCACGCACCTGAACGAGCACAGAATGAACTGACGGT
GGAAGACATTATGAGCTGTGTCCAACGTTTTAACCAAAGCGTATCGTACCAACGATCTGTGAAAATGCA
CTGGAAGCTTCTGGTCCCGGTTTCCTTTGGTCTATGTGGTCTTGTCCTCATTGTAATCCGTATAG
ATGGTATAGGTATTTAATCCTGGAAGCTGTTGCCTTATTAATGATTATCTTAAATTTCTCCATTGG
GGCAGCGTGGGCCAAATTAACAAACAAAACCGCAACTCCTCCACAGAAACACAAAACACAGTTATTCC
ATGAAGTTTAGTATTTGGTTGACATAGTCTCTCAAATTCATCCATTACCCTAAAAGTAATACTTT
GATGCTTGCTTTAACTTTAGTCCCATCTCTGCCACTTTGATGCTATTTGGGTTATGATGGGGCAAGATG
GCAGAGGTATTGGGTTTTTTGTTTTTTCCATTCCCTCTACTTCTGTTTCCTAGCTTTTTCTTTCTG
GAGTTAAGTACAGTGATGGTTGGCTTGAGTACTTTTTAAATCTAGCCCAGTATAAACATTAGCCCTGC
TTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGTTTGGCATTTTAAAGTAAAAAC
AAGTGTGACTTCGAGGACCAAAGAAATGTGAGTATAACATTTATCTTTATGAACTCATTATATTCCT
TTTTAATGACTCGTTGTTCTAACATTTCTAGAGTGTCTTATAAAGGTCTAATGTATCCACAGGCTG
TTGTCTTATTAGTAAATGCAAAGTAATGACTTTGTCTGTTTTACTTAGTCTTTAGTACTTCAAATTA
CCTTTTCATATCCATGATCTTGAGTCCATTTGGGGGATTTTTAAGAATTTGATGTATTTCAATACACTG
TTCAAATTAATTTGTTAATTTATGTATGAGTATGTATGTTCCCTGAAGGTGGTCTATTTAAATTAT
TAACTATTGTAACCTT
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: Sgfl-Mlul



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_001024071.2</a>
<b>Summary:</b>	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]
<b>Locus ID:</b>	2643
<b>MW:</b>	40.6