

## Product datasheet for **RR214062**

### Gch1 (NM\_024356) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gch1 (NM\_024356) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gch1  
**Synonyms:** Gch  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214062 representing NM\_024356  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGAAGCCGCGGGGTGTAAGGTGCACCAATGGGTTCCCGAGCGGGAGCTGCCGCGGCCCGGGGCCA  
GCCGACCTGCCGAGAAGTCCCGCCGCCGAGGCCAAGGGCGCACAGCCAGCCGACGCCTGGAAGGCAGG  
GCGGCCCGCAGCGAGGAGGATAACGAGCTGAACCTCCCAACCTGGCGGCCGCTTACTCGTCCATCCTG  
CGCTCGCTGGGGCAGGACCCCGAGCGGCAGGGGCTGCTCAAGACGCCCTGGAGGGCGGCCACCGCCATGC  
AGTTCTTCACCAAGGGATACCAGGAGACCATCTCAGATGTCTGAACGATGCTATATTTGATGAGGACCA  
TGACGAGATGGTATTGTGAAGGACATTGACATGTTTTCCATGTGTGAGCATCACCTGGTCCCATTGTG  
GGAAGGGTCCATATTGGTTATCTTCCTAACAAGCAAGTCCTTGGTCTCAGCAAATTGCCAGGATTGTG  
AAATCTACAGTAGAAGACTACAAGTTCAAGAACGCCTTACCAAACAGATTGCAGTGGCCATCACAGAAGC  
CTTGACGCCTGCTGGCGTCGGGGTAGTGATTGAAGCAACACACATGTGTATGGTCATGCGAGGTGTGCAG  
AAAATGAACAGCAAGACTGTCACTAGCACCATGCTAGGCGTGTCCGGGAAGACCCAAAGACTCGGGAGG  
AGTTCCTCACACTCATCAGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214062 representing NM\_024356  
 Red=Cloning site Green=Tags(s)

MEKPRGVRCTNGFPERELPRPGASRPAEKSRPPEAKGAQPADAWKAGRPRSEEDNELNLPNLAAAYSSIL  
 RSLGEDPQRQGLLKTPWRAATAMQFFTKGYQETISDVLNDIAIFDEDHDEMVIKVDIDMF5MCEHHLVPFV  
 GRVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALQPAGVGVVIEATHMCMVMRGVQ  
 KMNSKTVTSTMLGVFREDPKTREEFLTLIRS

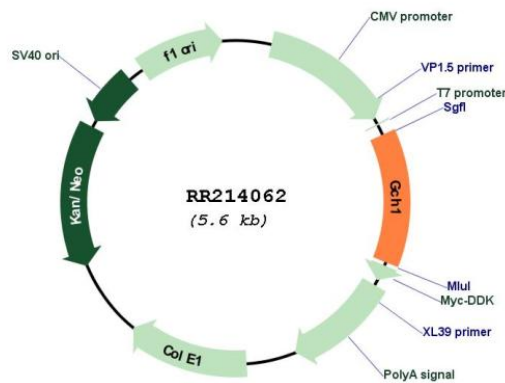
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_024356  
**ORF Size:** 723 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_024356.1</a> , <a href="#">NP_077332.1</a>
<b>RefSeq Size:</b>	1016 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	29244
<b>UniProt ID:</b>	<a href="#">P22288</a>
<b>Cytogenetics:</b>	15p14
<b>MW:</b>	27.1 kDa
<b>Gene Summary:</b>	an enzyme for tetrahydrobiopterin (BH(4)) synthesis; may mediate cell death of striatal neuronal and non-neuronal cells [RGD, Feb 2006]