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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RR214062 representing NM_024356
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGCCGCGGGGTGTAAGGTGCACCAATGGGTTCCCCGAGCGGGAGCTGCCGCGGCCCGGGGCCA
GCCGACCTGCCGAGAAGTCCCGGCCGCCCGAGGCCAAGGGCGCACAGCCAGCCGACGCCTGGAAGGCAGG
GCGGCCCCGCAGCGAGGAGGATAACGAGCTGAACCTCCCCAACCTGGCGGCCGCTTACTCGTCCATCCTG
CGCTCGCTGGGCGAGGACCCCCAGCGGCAGGGGCTGCTCAAGACGCCCTGGAGGGCGGCCACCGCCATGC
AGTTCTTCACCAAGGGATACCAGGAGACCATCTCAGATGTCCTGAACGATGCTATATTTGATGAGGACCA
TGACGAGATGGTGATTGTGAAGGACATTGACATGTTTTCCATGTGTGAGCATCACCTGGTCCCATTTGTG
GGAAGGGTCCATATTGGTTATCTTCCTAACAAGCAAGTCCTTGGTCTCAGCAAACTTGCCAGGATTGTGG
AAATCTACAGTAGAAGACTACAAGTTCAAGAACGCCTTACCAAACAGATTGCAGTGGCCATCACAGAAGC
CTTGCAGCCTGCTGGCGTCGGGGTAGTGATTGAAGCAACACACATGTGTATGGTCATGCGAGGTGTGCAG
AAAATGAACAGCAAGACTGTCACTAGCACCATGCTAGGCGTGTTCCGGGAAGACCCAAAGACTCGGGAGG
AGTTCCTCACACTCATCAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RR214062 representing NM_024356
Red=Cloning site Green=Tags(s)

MEKPRGVRCTNGFPERELPRPGASRPAEKSRPPEAKGAQPADAWKAGRPRSEEDNELNLPNLAAAYSSIL
RSLGEDPQRQGLLKTPWRAATAMQFFTKGYQETISDVLNDAIFDEDHDEMVIVKDIDMFSMCEHHLVPFV
GRVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALQPAGVGVVIEATHMCMVMRGVQ
KMNSKTVTSTMLGVFREDPKTREEFLTLIRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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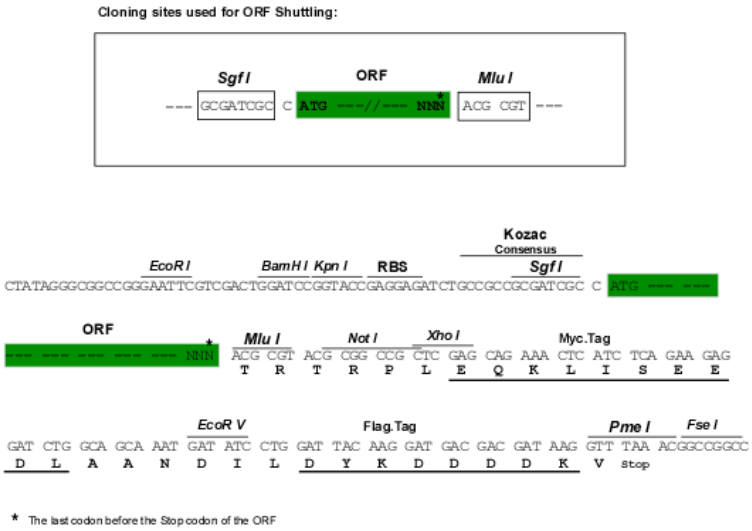
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024356

ORF Size: 723 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).

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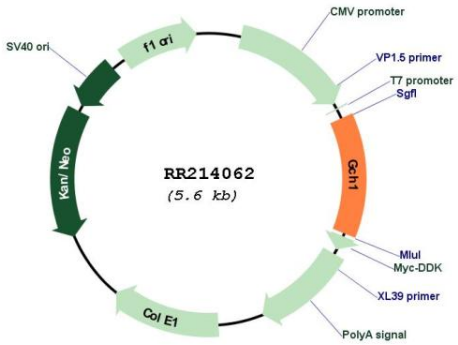
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_024356.1, NP_077332.1
RefSeq Size:	1016 bp
RefSeq ORF:	726 bp
Locus ID:	29244
UniProt ID:	P22288
Cytogenetics:	15p14
MW:	27.1 kDa
Gene Summary:	an enzyme for tetrahydrobiopterin (BH(4)) synthesis; may mediate cell death of striatal neuronal and non-neuronal cells [RGD, Feb 2006]

Product images:



Circular map for RR214062

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