

Product datasheet for **MG209605**

Cnga3 (NM_009918) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnga3 (NM_009918) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnga3
Synonyms:	CNG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209605 representing NM_009918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAAGTGAAACCCAGTGTTCACAGCCCTCCCGACCCAACCTTCAATAAAGAATGCGGACAGAG
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 GGTTCGCCGACTCCTGGCTGAGTACAGTGCCTCCAGATGAAGCTGAAACAGCGGCTCACTCGGCTGGA
 GAGCCAGATGAACAGGAGGTGTTGTGGTCTCACCTGACAGGGAGAATTCGAGGATGTTCAAAGACT
 GAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209605 representing NM_009918
 Red=Cloning site Green=Tags(s)

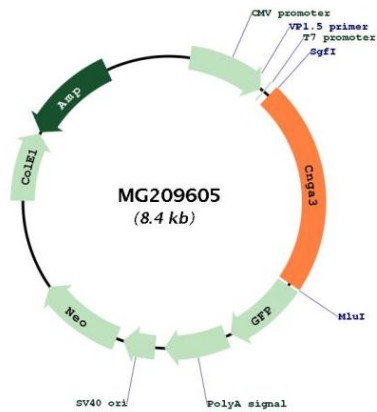
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 LTLWLVDYSADVLYVLDMLVRARTGFLEQGLMVRDTKRLWKHYTKTLHFKLDILSLIPTDLAYLKLGVN
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 TSKPEYARLSRKYIYSLYWSTLTLTTIGETPPPVKDEEYLFVVIDFLVGILIFATIVGNVGMISNMNAP
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 VRIFQDCEAGLLVELVLKLRPTVFSFGDYICKKGDIGREMYIIEKGLAVVADDGVTQFVVLSDGSYFGE
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 RVDTRDVEEKVEYLESSLIDILQTRFARLLAEYSASQMKLKQRLTRLESQMNRRCCGFSPPDRENSEDASKT
 D

TRTRPLE - GFP Tag - V

Cytogenetics: 1 B

Gene Summary: Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cyclic GMP which leads to an opening of the cation channel and thereby causing a depolarization of cone photoreceptors. Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones (By similarity). Induced a flickering channel gating, weakened the outward rectification in the presence of extracellular calcium, increased sensitivity for L-cis diltiazem and enhanced the cAMP efficacy of the channel when coexpressed with CNGB3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209605