

Product datasheet for **RG207894**

Calcyon (CALY) (NM_015722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcyon (CALY) (NM_015722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calcyon
Synonyms:	DRD1IP; NSG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207894 representing NM_015722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGCTGGGCTGCAGCTTCTCTGGGAAGCCAGGTAAGACCCTGGGGACCAGGATGGGGCTGCCA
TGGACAGTGTGCCTCTGATCAGCCCTTGGACATCAGCCAGCTCCAGCCGCCACTCCCTGACCAGGTGGT
CATCAAGACACAGACAGAATACCAGCTGTCTCCCGAGACCAGCAGAATTTCCCTGACCTGGAGGGCCAG
AGGCTGAACTGCAGCCACCCAGAGGAAGGGCGCAGGCTGCCACCGCACGGATGATCGCCTTCGCCATGG
CGCTACTGGGCTGCGTGCTGATCATGTACAAGGCCATCTGGTACGACCAGTTCACCTGCCCGACGGCTT
CCTGCTGCGGCACAAGATCTGCACGCCGCTGACCTGGAGATGTACTACACGGAGATGGACCCCGAGCGC
CACCGCAGCATCCTGGCGCCATCGGGGCTACCCGCTGAGCCGCAAGCACGGCACGGAGACGCCGGCGG
CCTGGGGGACGGCTACCGCGCAGCCAAGGAGGAGCGCAAGGGGCCACCCAGGCTGGGGCGGGCGCGG
GGCCACCGAACCCCGGAAGCCGTCGGCCAAGGCGGAGAAGGAGGCGGCGGGAAGGCGGCGGGAGC
GCGGCGCCCCGCGCCGCGAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207894 representing NM_015722
 Red=Cloning site Green=Tags(s)

MVKLGCSFSGKPGKDPGDQDGAAMDSVPLISPLDISQLQPPLPDQVVIKTQTEYQLSSPDQQNFPDLEGO
 RLNCSPHEEGRRLPTARMI AFAMALLGCVLIMYKAIWYDQFTCPDGFLLRHKICTPLTLEMYTEMPPER
 HRSILAATIGAYPLSRKHGTETPAAWGDGYRAAKEERKGP TQAGAAAAATEPPGKPSAKAEKEAARKAAGS
 AAPPPAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015722

ORF Size: 651 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).

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_015722.4](#)

RefSeq Size: 915 bp

RefSeq ORF: 654 bp

Locus ID: 50632

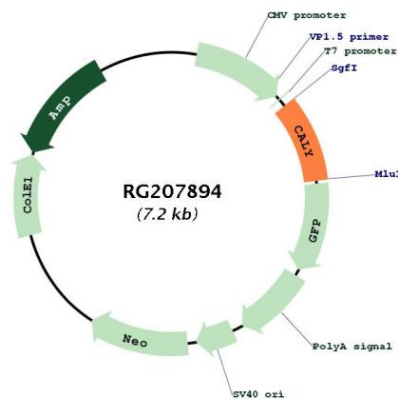
UniProt ID: [Q9NYX4](#)

Cytogenetics: 10q26.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a type II single transmembrane protein. It is required for maximal stimulated calcium release after stimulation of purinergic or muscarinic but not beta-adrenergic receptors. The encoded protein interacts with D1 dopamine receptor and may interact with other DA receptor subtypes and/or GPCRs. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207894