

Product datasheet for MG222585

Commd1 (NM 144514) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Commd1 (NM_144514) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Commd1

Synonyms: Al256843; Murr1; U2/Mu

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG222585 representing NM_144514

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGGCGATCTGGAGGGTGGCAAGTCCCTGAGCGGGCTGCTGAGCGGCCTAGCGCAGAACGCCTTTC ACGGACACTCTGGGTGTCACGGAGGAGTTCCACGGAGGAGTTCCCGGAAGTGCCACCGGAGGAGTTCCGCCCCCTTCCTGGCGAAGATGAGAGGACTTCTCAAGTCTATTGCATCTGCAGACATGGATTTCAACCAG TTAGAGGCATTCCTGACTGCTCAAACCAAAAAGCAAGGTGGCATCACCAGTGAGCAAGCTGCAGTCATCT CCAAGTTTTGGAAGAGCCACAAGATAAAAATCCGAGAGAGTCTCATGAAGCAGAGCCGCTGGGACAACGG CCTTCGGGGCCTGAGCTGGAGAGTCGATGGCAAGTCTCAGTCACGGCACTCAACTCAGATACACAGCCCT GTTGCCATAATAGAGCTGGAATTTGGAAAAAATGGACAGGAATCTGAATTTTTTGTTCTGGAATTTTGATG AAGTTAAAGTCAAGCAAATCCTGAAGAAGAGAGCTGTCAGAGGAGAGTAGCAGGC

AGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222585 representing NM_144514

Red=Cloning site Green=Tags(s)

MAGDLEGGKSLSGLLSGLAQNAFHGHSGVTEELLHSQLYPEVPPEEFRPFLAKMRGLLKSIASADMDFNQ LEAFLTAQTKKQGGITSEQAAVISKFWKSHKIKIRESLMKQSRWDNGLRGLSWRVDGKSQSRHSTQIHSP

VAIIELEFGKNGQESEFLCLEFDEVKVKQILKKLSEVEESINRLMQAA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



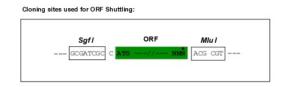
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

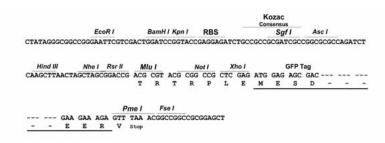
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

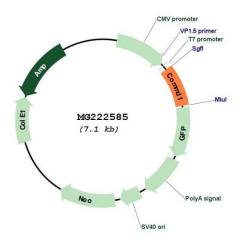


Cloning Scheme:





Plasmid Map:



ACCN: NM_144514

ORF Size: 564 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.

NM 144514.2, NP 653097.2 RefSeq:

RefSeq Size: 818 bp RefSeq ORF: 567 bp Locus ID: 17846 **UniProt ID:** Q8K4M5

Cytogenetics: 11 14.22 cM

Gene Summary: Proposed scaffold protein that is implicated in diverse physiological processes and whose

function may be in part linked to its ability to regulate ubiquitination of specific cellular proteins. Can modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes by displacing CAND1; in vitro promotes CRL E3 activity and dissociates CAND1 from CUL1 and CUL2. Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity. Involved in the regulation of membrane expression and ubiquitination of SLC12A2. Modulates Na(+) transport in epithelial cells by regulation of apical cell surface expression of amiloride-sensitive sodium channel (ENaC) subunits and by promoting their ubiquitination presumably involving NEDD4L. Promotes the localization of SCNN1D to recycling endosomes. Promotes CFTR cell surface expression through regulation of its ubiquitination. Down-regulates SOD1 activity by interfering with its homodimerization. Plays a role in copper ion homeostasis. Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery; the function is proposed to depend on its association within the CCC complex and cooperation with the WASH complex on early endosomes. Can bind one copper ion per monomer. May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). Involved in the regulation of HIF1A-mediated transcription; competes with ARNT/Hif-1-beta for binding to HIF1A resulting in decreased DNA binding and impaired transcriptional activation by HIF-1. Negatively regulates neuroblastoma G1/S phase cell cycle progression and cell proliferation by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a FAM107A- and actin-dependent manner. [UniProtKB/Swiss-Prot Function]