

Product datasheet for **RG228428**

CLK1 (NM_001162407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK1 (NM_001162407) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLK1
Synonyms:	CLK; CLK/STY; STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228428 representing NM_001162407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTGGGCGGAGGCCGGCTTCGGCCCTGTGGCCGAAAGGCGAGGCTCCCGTTGAGGGGGATT
 TGCTGGGGTTCCAGAATGTGCGTGAGCCAAGCAGCTGTGGGAAACGTTGTCTGGAATGAGACACTCAAA
 GAGAACTTACTGCTGATTGGGATGACAAGGATTGGGATTATGAAAAATGGAGGAGCAGCAGCAGTCAT
 AAAAGAAGGAAGAGATCACATAGCAGTGCCAGGAGAACAAGCGCTGCAAATACAATCACTCTAAAAATGT
 GTGATAGCCATTATTTGGAAAGCAGGTCTATAAATGAGAAAGATTATCATAGTCGACGCTACATTGATGA
 GTACAGAAATGACTACACTCAAGGATGTGAACCTGGACATCGCCAAGAGACCATGAAAGCCGGTATCAG
 AACCATAGTAGCAAGTCTTCTGGTAGAAGTGAAGAAGTAGTTATAAAAGCAAACACAGGATTCACCACA
 GTACTTCACATCGTCGTTACATGGGAAGAGTACCAGGAAAAGAACCAGGAGTGTAGAGGATGATGA
 GGAGGGTACCTGATCTGTCAGAGTGGAGACGTAAGTGAAGATATGAAATTGTTGACTTTAGGT
 GAAGGAGCTTTTGGAAAAGTTGTGGAGTGCATCGATCATAAAGCGGGAGGTAGACATGTAGCAGTAAAAA
 TAGTTAAAAATGTGGATAGATACTGTGAAGCTGCTCGCTCAGAAATACAAGTTCTGGAACATCTGAATAC
 AACAGACCCCAACAGTACTTTCCGCTGTGTCCAGATGTTGGAATGGTTTGTAGCATCATGGTCACATTTGC
 ATTTGTTTTGAACTATTGGGACTTAGTACTTACGACTTCATTAAGAAAAATGGTTTTCTACCATTTCGAC
 TGGATCATATCAGAAAAGATGGCATAATCAGATATGCAAGTCTGTGAATTTTTGCACAGTAATAAGTTGAC
 TCACACAGACTTAAAGCCTGAAAACATCTTATTTGTGCAGTCTGACTACACAGAGCGTATAATCCCAAA
 ATAAAACGTGATGAACGCACCTTAATAAATCCAGATATTAAGTTGTAGACTTTGGTAGTCAACATATG
 ATGACGAACATCAGATACATTTGGTATCTACAAGACATTATAGAGCACCTGAAGTTATTTAGCCCTAGG
 GTGGTCCCAACCATGTGATGCTGGAGCATAGGATGCATTCTTATTGAATACTATCTTGGGTTTACCGTA
 TTTCCAACACACGATAGTAAGGAGCATTAGCAATGATGGAAGGATTCTTGGACCTCTACCAAAAACATA
 TGATACAGAAAACCAGGAAACGTAATATTTTACCACGATCGATTAGACTGGGATGAACACAGTTCTGC
 CGGCAGATATGTTTCAAGACGCTGTAACCTCTGAAGGAATTTATGCTTTCTCAAGATGTTGAACATGAG
 CGTCTCTTTGACCTATTAGAAAATGTTGGAGTATGATCCAGCCAAAAGAATTACTCTCAGAGAAGCCT
 TAAAGCATCCTTTCTTTGACCTTCTGAAGAAAAGTATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228428 representing NM_001162407
 Red=Cloning site Green=Tags(s)

MAAGRPPASALWPERRGSPLRGDLLGFQNVREPSSCGETLSGMRHSKRTYCPDWDKDWYGKWRSSSSH
 KRRKRSHSSAQENKRCYKYNHSMCDSHYLESRSINEKDYSRRYIDEYRNDYTQCEPGRQRDHESTRYQ
 NHSSKSSGRSGRSSYKSKHRIHSTSHRRSHGKSHRRKRTRSVEDEEGHLICQSGDVL SARYEIVDTLG
 EGAFGKVVECIDHKAGGRHVAVKIVKNVDRYCEAARSEIQVLEHLNNTDPNSTFRVCQMLEWFEHHGHC
 IVFELLGLSTYDFIKENGFLPFRLDHIRK MAYQICKSVNLFHSNKLTHDLPENILFVQSDYTEAYNPK
 IKRDERL INPDIKVVDFGSATYDDEHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTV
 FPTHDSKEHLAMMERILGPLPKHMIQKTRKRKYFHHDRLDWEHSSAGRYVSRCKPLKEFMLSQDVEHE
 RLFDLIQKMLEYDPAKRITLREALKHPFFDLLKCSI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001162407

ORF Size: 1578 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_001162407.1](#), [NP_001155879.1](#)

RefSeq Size: 2213 bp

RefSeq ORF: 1581 bp

Locus ID: 1195

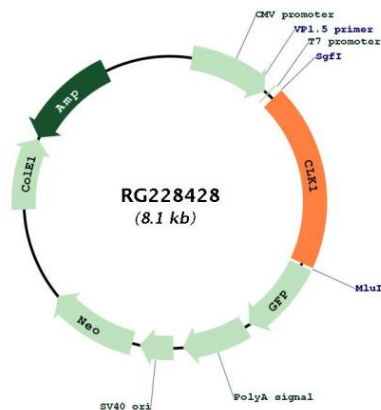
UniProt ID: [P49759](#)

Cytogenetics: 2q33.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. In the nucleus, the encoded protein phosphorylates serine/arginine-rich proteins involved in pre-mRNA processing, releasing them into the nucleoplasm. The choice of splice sites during pre-mRNA processing may be regulated by the concentration of transacting factors, including serine/arginine rich proteins. Therefore, the encoded protein may play an indirect role in governing splice site selection. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

Product images:



Circular map for RG228428