

Product datasheet for **RG225427**

p57 Kip2 (CDKN1C) (NM_001122630) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p57 Kip2 (CDKN1C) (NM_001122630) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDKN1C
Synonyms:	BWCR; BWS; KIP2; p57; p57Kip2; WBS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225427 ORF sequence, codon optimized . Due to the complexity of NM_001122630, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGAGACTGGTGGCTCGGGTACTTTTCCAGTGCTCGTTCGGACTAGCGCATGCCGAAGCCTGTTT
GTCCTGTTGATCATGAAGAGCTCAGCCGGAGCTCCAGGCCGACTGGCTGAGCTGAACGCTGAAGACCA
GAATCGCTGGGACTACGATTTTCAGCAAGACATGCCGTTGAGAGGCCAGGCAGGTTGCAATGGACAGAG
GTCGATTCTGATTCGGTGCCTTCTATAGGGAAACAGTACAAGTGGGACGATGCCGACTGCTGCTGG
CGCCCCGCCCTGTTGCAGTGGCCGTGGCCGTGAGCCACCGCTGGAAACCCGCCGCGGAGTCTTGGACGG
TTTGAAGAGGCCACCCGAGCAGCTTCCGTCCGTCCCGTCCCGCCCCCGCATCAACCCACCACCTGTT
CCAGTCCCTTGTCCCGCCCCGCACCCGCCAGCCCCGGTTGCAGCCCCCGTGGCCGCTCCGGTCCGAG
TAGCTGTGTTGGCCCTGCCCCAGCCCCAGCTCCAGCCCCGCACCCGCTCCGGCCCCGGTGGCCGCGCC
AGCACCCGCCCGCACCCGCCAGCCCCGGCCCCAGCCCCGCGCCAGCCCTGCAGCAGCGCTGATGCCGCCCCAG
GAGAGCGCCAACAAGGCGCAACCAGGGACAGAGGGTCAAGGAGCCTCTCGCTGATCAACTTCATAGCG
GTATTTCTGGCCGCCCGCCCGGTACAGCCGCTGCTAGTGCTAATGGTGTGCCATCAAGAACTGTC
CGGGCCACTGATCAGCGATTTCTCGCCAAGAGAAAAAGATCTGCTCCAGAGAAGAGTAGCGGGACGTC
CCTGCACCCTGCCGTCCCTCCGCTGCCCCAGGTGTCGGCTCTGTGGAACAGACTCCTCGGAAGAGAC
TTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225427 representing NM_001122630
Red=Cloning site Green=Tags(s)

MERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMPLRGPGRQLQWTE
 VDSDSVPAFYRETVQVGRCLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVPVPAPASTPPPV
 PVLAPAPAPAPVAAPVAAPVAVLAPAPAPAPAPAPVAAPAPAPAPAPAPAPDAAPQ
 ESAEQGANQGQEQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRKRSAPEKSSGDV
 PAPCPSPAAPGVGSVEQTPRKRLR

TRTRPLE - GFP Tag - V

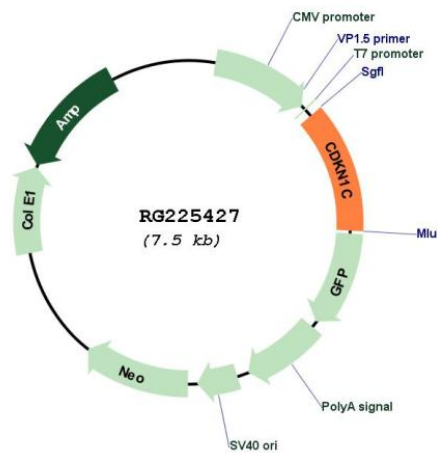
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001122630

ORF Size: 915 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:	<ol style="list-style-type: none">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_001122630.1 , NP_001116102.1
RefSeq Size:	1776 bp
RefSeq ORF:	918 bp
Locus ID:	1028
UniProt ID:	P49918
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
Gene Summary:	This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndrome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]