

Product datasheet for **SC318824**

p57 Kip2 (CDKN1C) (NM_001122630) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p57 Kip2 (CDKN1C) (NM_001122630) Human Untagged Clone
Tag:	Tag Free
Symbol:	p57 Kip2
Synonyms:	BWCR; BWS; KIP2; p57; p57Kip2; WBS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001122630, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAGCGTCTTGTGCGCCGTGGGACCTTCCCAGTACTAGTGCACAGCGCCTGCCGC AGCCTCTTCGGGCCGGTGGACCACGAGGAGCTGAGCCGCGAGCTGCAGGCCCGCCTGGCC GAGCTGAACGCCGAGGACCAGAACCGCTGGGATTACGACTTCCAGCAGGACATGCCGCTG CGGGGCCCTGGACGCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCCGCTTCTAC CGCGAGACGGTGCAGGTGGGGCGCTGCCGCTGCTGCTGGCGCCGCGGCCGTCGCGGTC GCGGTGGCTGTCAGCCCCCCCCTCGAGCCGGCCGCTGAGTCCCTCGACGGCCTCAGGAG GCGCCGAGCAGCTGCCTAGTGTCCCGTCCCGGCCCGCGTCCACCCGCCCCAGTC CCGGTCCCTGGCTCCAGCCCCGGCCCCGGCTCCGGCTCCGGTCCGGTCCGGTCCGGT CCGGTCCGGTCCGGTCCCTGGCCCCGGCCCCGGCCCCGGCTCCGGTCCGGTCCGGTCCGGC CCGGTCCAGTCGCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCC CCGGCCCCGGCCCCGGACGCGCGCCCTCAAGAGAGCGCCGAGCAGGGCGCGAACCAGGG CAGCGCGGCCAGGAGCCTCTCGTGACAGCTGCACTCGGGGATTTCGGGACGTCCCGCG GCCGGCACCGCGCCGCCAGCGCAACGCGCGCGGATCAAGAAGCTGTCCGGGCTCTG ATCTCCGATTTCTTCGCAAGCGCAAGAGATCAGCGCTGAGAAGTCGTCCGGCGATGTC CCCGGCCCGTGTCCCTCTCCAAGCGCGCCCCCTGGCGTGGGCTCGGTGGAGCAGACCCG CGCAAGAGGCTGCGG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001122630
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.


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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:	<u>NM_001122630.1, NP_001116102.1</u>
RefSeq Size:	1776 bp
RefSeq ORF:	918 bp
Locus ID:	1028
UniProt ID:	<u>P49918</u>
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode isoform b.</p>