

## Product datasheet for **RC230823L4V**

### CTCF (NM\_001191022) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	CTCF (NM_001191022) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CTCF
Synonyms:	CFAP108; FAP108; MRD21
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001191022
ORF Size:	2184 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC230823).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001191022.1</a> , <a href="#">NP_001177951.1</a>
RefSeq Size:	2985 bp
RefSeq ORF:	1200 bp
Locus ID:	10664
UniProt ID:	<a href="#">P49711</a>
Cytogenetics:	16q22.1
Protein Families:	Transcription Factors
MW:	82.8 kDa



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**Gene Summary:**

This gene is a member of the BORIS + CTCF gene family and encodes a transcriptional regulator protein with 11 highly conserved zinc finger (ZF) domains. This nuclear protein is able to use different combinations of the ZF domains to bind different DNA target sequences and proteins. Depending upon the context of the site, the protein can bind a histone acetyltransferase (HAT)-containing complex and function as a transcriptional activator or bind a histone deacetylase (HDAC)-containing complex and function as a transcriptional repressor. If the protein is bound to a transcriptional insulator element, it can block communication between enhancers and upstream promoters, thereby regulating imprinted expression. Mutations in this gene have been associated with invasive breast cancers, prostate cancers, and Wilms' tumors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]