OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC202963

CXXC5 (NM_016463) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXXC5 (NM_016463) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CXXC5
Synonyms:	CF5; HSPC195; RINF; WID
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202963 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGGCGGAGAGTCTGCTGACAAGGCCACTGCGGCTGCAGCCGCTGCCTCCCTGTTGGCCAATGGGC
ATGACCTGGCGGCGGCCATGGCGGTGGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGCTGTGGC
CAGCCTGCTGAGCAAGGCAGAGCGGGCCACGGAGCTGGCAGCCGAGGGACAGCTGACGCTGCAGCAGTTT
GCGCAGTCCACAGAGATGCTGAAGCGCGTGGTGCAGGAGCATCTCCCGCTGATGAGCGAGGCGGGTGCTG
GCCTGCCTGACATGGAGGCTGTGGCAGGTGCCGAAGCCCTCAATGGCCAGTCCGACTTCCCCTACCTGGG
CGCTTTCCCCATCAACCCAGGCCTCTTCATTATGACCCCGGCAGGTGTGTTCCTGGCCGAGAGCGCGCTG
CACATGGCGGGCCTGGCTGAGTACCCCATGCAGGGAGAGCTGGCCTCTGCCATCAGCTCCGGCAAGAAGA
AGCGGAAACGCTGCGGCATGTGCGCGCCCTGCCGGCGGCGCATCAACTGCGAGCAGTGCAGCAGTTGTAG
GAATCGAAAGACTGGCCATCAGATTTGCAAATTCAGAAAATGTGAGGAACTCAAAAAGAAGCCTTCCGCT
GCTCTGGAGAAGGTGATGCTTCCGACGGGAGCCGCCTTCCGGTGGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202963 protein sequence
Red=Cloning site Green=Tags(s)

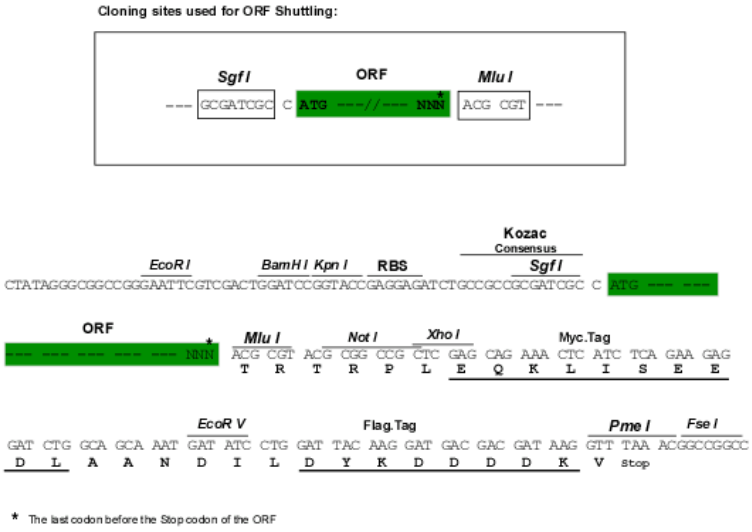
MMGGESADKATAAAAAASLLANGHDLAAAMAVDKSNPTSKHKSGAVASLLSKAERATELAAEGQLTLQQF
AQSTEMLKRVVQEHLPLMSEAGAGLPDMEAVAGAEALNGQSDFPYLGAFPINPGLFIMTPAGVFLAESAL
HMAGLAEYPMQGELASAISSGKKKRKRCGMCAPCRRRINCEQCSSCRNRKTGHQICKFRKCEELKKKPSA
ALEKVMLPTGAAFRWFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016463

ORF Size: 681 bp

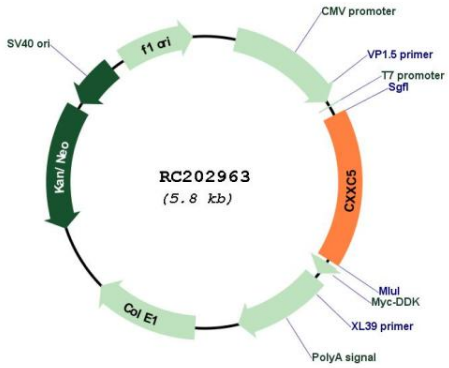
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

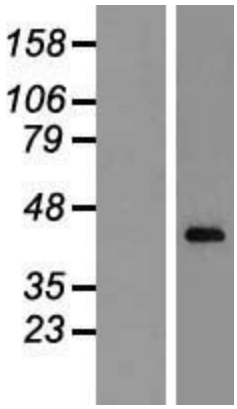
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_016463.6
RefSeq Size:	1447 bp
RefSeq ORF:	969 bp
Locus ID:	51523
UniProt ID:	Q7LFL8
Cytogenetics:	5q31.2
Domains:	zf-CXXC
MW:	24.1 kDa
Gene Summary:	The protein encoded by this gene is a retinoid-inducible nuclear protein containing a CXXC-type zinc finger motif. The encoded protein is involved in myelopoiesis, is required for DNA damage-induced p53 activation, regulates the differentiation of C2C12 myoblasts into myocytes, and negatively regulates cutaneous wound healing. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC202963



Western blot validation of overexpression lysate (Cat# [LY413964]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202963 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).