

Product datasheet for **RC203583**

REXO5 (NM_030941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	REXO5
Synonyms:	NEF-sp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC203583 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCAGAGAGGGAAGGGACCGAGAGACACCCAGGAAGTCAAGGAAAGCAGGCAGGCCCAATA
AGCTGGTCGGGGCAGCTGAGGCGATGAAAGCCGGTTGGGATCTCGAGGAGAGTCAGCCCAGGCCAAGAA
AGCCCCGTTATCTACCATTTTATTTACTGACAACTGTGAAGTAACCCATGACCAGCTGTGTGAATTGCTG
AAGTATGCAGTTCTGGGCAATCCAATGTTCCAAACCCAGCTGGTGCCAGCTTTTTCATCAAAACCACC
TAAACAACGTAGTGGTTTTTGTCTGCAGGGAATGAGTCAGCTACACTTTTACAGGTTCTATTTGGAGTT
TGGATGTCTTCGAAAAGCATTAGACATAAATTCCGCTTGCCTCCACCATCATCTGATTTTCTAGCTGAT
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ATGCAAAAGCCGCATCAACCTTCAGGATGATCCCATCATTCAAAAGTATGGCTCTAAGAAAGTGGGCTT
GACCAGATGCCTTCTGACAAAGGAGGAAATGAGAACGTTTCACTTTCCATTACAAGTTTTCTGATTGT
GAAAATTTTTACTTACCAATGTAATGGTTCTATAGCAGACAATAGTCCTCTCTTTGGACTTGACTGTG
AAATGTGCCTCACATCCAAGGGGAGAGAGCTAACACGCATCTCACTGGTTGCTGAAGGAGGCTGCTGTG
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TGATACATCGTTGCTTTATGTGAGAGAGCAGGGCAGAAGATTTAAGCTCAAGTTCTTAGCCAAAGTTATT
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AATTGGCTCGGTATTTCTTAAGCATGGCCCCAAAAAGATTGCAGAACTAAATCTAGAAGCACTAGCTAA
TCACCAAGAAATACAAGCAGCAGGCCAAGAGCCTAAAAACACAGCAGAAGTACTTCAGCACCCAAACACA
AGTGTGTTTGAATGCTTGGATTCACTGGGTCAGAAGCTTCTTTTTTTGACCCGGGAGACAGATGCTGGTG
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AAAATTGCAATCTCAGGGCTCTGAAGAGGCTGTTTAAAGCTTTGGCCAGTCCAGTCAATGACTTTTGT
TCTTGAACCCGTCAGCCTCATCTGTATACAGTATGAAGTCTAGAAGCTGCCAGCTGGCCATAGAG
TCCTTGGATGGTATTCTGGTAGATGGTATCTGCATCAAGTGCAGAGGCCTGTGACAGAGCTCACGCTTG
ATTGTGACACCCTCGTGAATGAGCTGGAAGGAGATTCTGAAAACCAAGGCTCTATATCTGTCTGGAGT
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CCTAAAGATCTTAAAGTGGAAGCAGAAAAAATACTGTTTCTGAAATTCAAAAGTTTGGCAGTGCCC
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CCTCCATGCCTGGCTCAGAGGCTTACCACCTGAATCAACAAGGCTCCAGGGCTTCGTGTTGTACCTCCC
CCCTTTGAACAGGAGGCCTTGCACTCTGAACTGGACCACCCGAAGATAGCAGCCTGGCGCTGGAGCC
GGAAGATTGGAAGCTCTACAACAGCTTGTGCCGGGCACTCTCTGCCTCATCTGCTGCCAGGAACCAA
GAGCACTCATGTTCACTCTCTGGTCTAGGACTGATGGGAATAAAGAGGAAGAAGAAAGCGCTGCCCCA
GGCCTGTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203583 protein sequence
Red=Cloning site Green=Tags(s)

MEPEREGTERHPRKVRSRQAPNKLVGAAEAMKAGWDLEESQPEAKKARLSTILFTDNCEVTHDQLCELL
KYAVLGSNVPKPSWCQLFHQNHNNVVVFLVQMSQLHFYRFLYEFGLRKAFRHKFRLPPSSDFLAD
VVGLQTEQRAGDLPKTMEGPLPSNAKAAINLQDDPIIQKYGSKKVGLTRCLLTKEEMRTFHFPLQGFPC
ENFLLTKNGSIADNSPLFGLDCMCLTSKGRELTRISLVAEGGCCVMDELVKPENKILDYLTFSGITK
KILNPVTTKLKDVQRQLKALLPPDAVLVGHSLDLRLAKMIHPYVIDTSLLYVREQRRFKLFLAKVI
LGKDIQCPDRLGHDATEDARTILELARYFLKHGPKKIAELNLEALANHQEIQAAQEPKNTAEVLQHPNT
SVLECLDSVGQKLLFLTRETGAGELPSSRNCQTIKCLSNKEVLEQARVEIPLFPFSIVQFSKAFSPVLT
EEMNKRMRKIKWTEISTVYAGPFSKNCNLRLKRLFKSFGPVQSMTFVLETRQPHLCIQYEVLEAAQLAIE
SLDGILVDGICIKVQRPVTELTDCDTLVNELEGDSENGQSIYLSGVSETFKEQLLQEPRLFLGLEAVIL
PKDLKSGKQKKYCFKFSFGSAQQALNLTGKDWKLKGRHALTPRHLHAWLRGLPPESTRPLGLRVVPP
PFEQALQTLKLDHPKIAAWRWSRKIGKLYNSLCPGTLCLILLPGTKSTHGSLSGLGLMGIKEEESAGP
GLCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

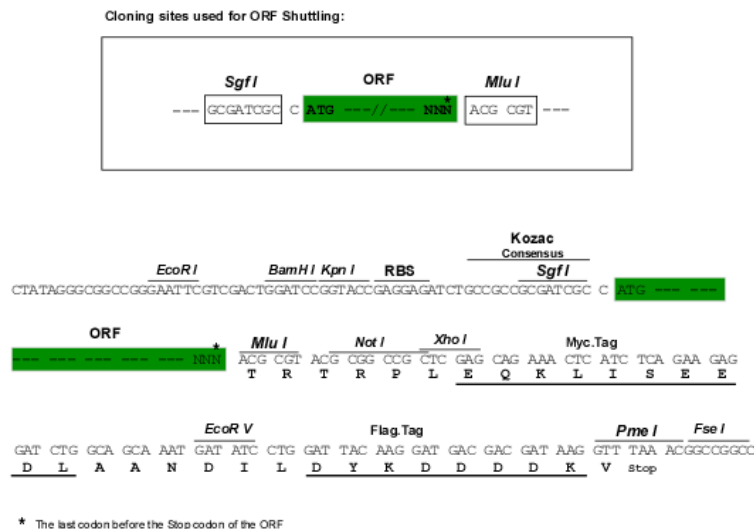
Chromatograms:

https://cdn.origene.com/chromatograms/mk6078_h01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_030941

ORF Size:

2322 bp

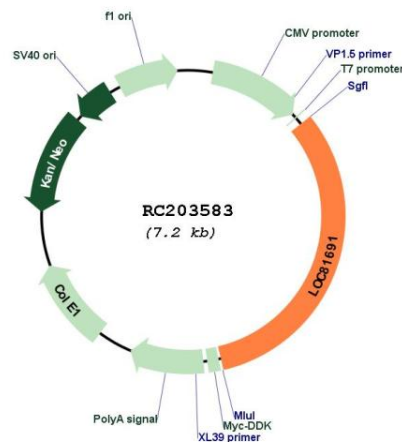
OTI Disclaimer:

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](#)

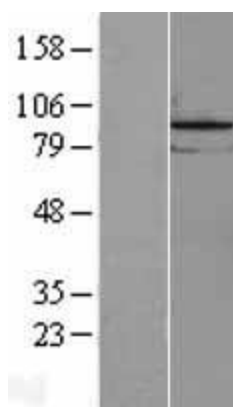
OTI Annotation:

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:	<u>NM_030941.3</u>
RefSeq Size:	2791 bp
RefSeq ORF:	2325 bp
Locus ID:	81691
UniProt ID:	<u>Q96IC2</u>
Cytogenetics:	16p12.3
Domains:	RRM, EXOIII
MW:	86.9 kDa

Product images:

Circular map for RC203583



Western blot validation of overexpression lysate (Cat# [LY403099]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203583 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).