

Product datasheet for **RC216399**

ERC1 (NM_015064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERC1 (NM_015064) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERC1
Synonyms:	Cast2; ELKS; ELKS/RAB6-interacting/CAST family member 1; KIAA1081; MGC12974; OTTHUMP00000160633; RAB6 interacting protein 2; RAB6-interacting protein 2; RAB6IP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216399 representing NM_015064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATGGAAGTGCCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGGCGTTCACCCAGGC
 TTCACAGTTCCTTCGCTTGGGTACCCTCGAACCAACAGTACGGGAGGGAGTTCGGGAAGCAGTGTGG
 AGGTGGCAGTGGGAAAACCTTTCAATGAAAAATATAAATCTTTAAATGCTGCCTATGCCACCTCTGGC
 CCTATGTATCTAAGTGACCATGAAAATGTGGGTTCAGAAACACCTAAAAGCACCATGACACTTGGCCGT
 CTGGGGGACGCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCAATATAGCTAGCAGTGG
 GGTGCTAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCTGTGAGTATGGCATCCACTGTACCT
 CACTCCCTTCGTCAGGCGAGAGATAACACAATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAG
 AAAATGATCTCTTGCAGGAGGATGTGGAAGTAAAGGAGAGCAAATGAGTCTTCAATGAATAGCATCAA
 GACCTTCTGGAGCCAGAGCTGAAGAAGGAACGAGCCCTGAGAAAAGATGAAGCTTCCAAAATCACCATT
 TGAAGGAACAGTACAGAGTTGTACAGGAGGAAAACCAGCACATGCAGATGACAATCCAGGCTCTCCAGG
 ATGAATTGCGGATCCAGAGGGACCTGAATCAGCTGTTTCAGCAGGATAGTAGCAGCAGGACTGGCGAAC
 TTGTGTAGCAGAGCTGACAGAGGAGAACTTTCAGAGGCTTCATGCTGAGCATGAGCGGCAGGCCAAAGAG
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 GGAAGACCATGAGAGAACAAGACGACTGGCAGAGGCAGAGATGCACGTTTCATCACCTAGAAAAGCCTTTT
 GAGCAGAAGGAAAAAGAGAACAGTATGTTGAGAGAGGAGATGCATCGAAGTTTGAGAATGCTCCTGATT
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 AACAGGAGCTGTCCAGAAAGGACACAGAACTACTCGCCCTGCAGACAAAGCTAGAAAACACTCACAAACCA
 GTTCTCAGATAGTAAACAGCACATTGAAGTGTGAAGGAGTCTTACTGCTAAGGAGCAGAGGGCTGCC
 ATCCTGCAGACTGAGGTGGATGCTCTCCGATTGCGTTTGGAGAGAAGGAAAACCTGTTGAATAAAAAGA
 CAAAACAAATTCAGGATATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACATGACCTCAAGGACAT
 GTTGGATGTGAAGGAGCGGAAGGTTAATGTTCTCAGAAGAAGATTGAAAATCTCAAGAGCAGCTTAGA
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 AACTGCCTTGACAACCTTGGAGGAGGCCCTTGCAGAGAAAGAGCGGACAATTGAACGCTTAAAGGAGCA
 GAGGGACAGAGATGAGCGAGAGAAGCAAGAGGAAATTGATAACTACAAAAAGATCTTAAAGACTTGAAG
 GAAAAAGTCAGCCTGTTGCAAGGCGACCTTTCAGAGAAAGAGGCTTCACTTTTGGATCTGAAAGAGCATG
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 GAAGAAGGAGGAGTGTCTGAAAATGGAATCACAAATGAAAAGGCACATGAGGCAGCATTGGAAGCCAGA
 GCCAGTCCAGAGATGAGTGACCGAATACAGCACTTGGAGAGAGAGATCACCAGGTACAAAGATGAATCTA
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 GCAGGAACTAGAAATCCATGAAAGCAAAGCTGCTCCACCCAGCAGTCTCTGGCAGAAAAGGAAAACCTCAC
 TTGACTAATCTTCGGGCAGAGAGAAGGAAAACACTTAGAGGAAAGTTCTGGAGATGAAGCAAGAAGCTCTC
 TGGCTGCCATTAGTAAAAAGACCCAATATAGCTCTCTTGGAGCTTTCGCTCTAAGAAGAAGACCCA
 AGAGGAAGTGGCTGCCCTGAAGCGGGAGAAGGATCGTCTGGTACAGCAGCTTAAAGCAGCAGACGCAAAAT
 CGAATGAAGCTAATGGCCGACAACCTACGAGGATGACCCTTCAAATCCTCCCATTCCAATCAAACAAATC
 ACAAGCCCTCCCAGACCAGGATGAGGAGGAGGTATATGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216399 representing NM_015064
 Red=Cloning site Green=Tags(s)

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAAYATSG
 PMYLSDHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIIASSGVASDTIAFGEHLLPPVSMASTVP
 HSLRQARDNTIMDLQTLKEVLRENDLLRKDVEVKESKLSMNSIKTFWSPELKKERLRKDEASKITI
 WKEQYRVVQEEHQMQMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVELTEENFQRLHAEHERQAKE
 LFLLRKTLLEEMELRIETQKQTLNARDESIIKLLLEMLQSKGLSAKATEEDHERTRRLAEAEEMVHHLESLL
 EQKEKENSMLREEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLLEEEIQMLKSNALSTEERE
 EEMKQMEVYRSHSKFMKNKIGQVKQELSRKDTELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAA
 ILQTEVDALRLLEEKETMLNKKTKQIQDMAEEKGTQAGEIHDLKMDLDVYKERVNVLQKKIENLQEQLR
 DKEKQMSLKERVKSQADTTNTDTALTTLEEALEKERTIERLKEQRDRDEREQEEIDNYKDKLDKDK
 EKVSLLQGDSEKEASLLDLKEHASSLASSGLKDSRLKLEIALEQKKEECLKMESQLKAHEAALEAR
 ASPEMSDRIQHLEIREITRYKDESSKAQAEVDRLLEILKEVENEKNDKDKIAELESLSRQVKDQNKKVA
 NLKHKEQVEKKKSAQMLEARRREDNLNDSSQQLQVEELLMAEKVKQELSMKAKLSSTQQLAEKETH
 LTNLRAERRKHLEEVLEMKQEAALLAAISEKDANIALLELSSSKKKTQEEVAALKREKDRLVQQLKQQTQN
 RMKLMADNYEDDHFKSSHSNQTNHKPSPDQDEEEGIWA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6594_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



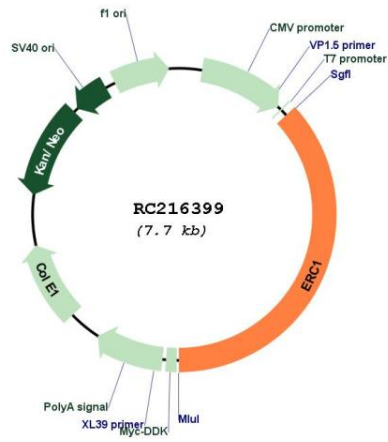
* The last codon before the Stop codon of the ORF

ACCN: NM_015064

ORF Size: 2844 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_015064.2 , NP_055879.1
RefSeq Size:	6919 bp
RefSeq ORF:	2846 bp
Locus ID:	23085
Cytogenetics:	12p13.33
Domains:	Pox_A_type_inc
Protein Families:	Druggable Genome
MW:	108.6 kDa
Gene Summary:	The protein encoded by this gene is a member of a family of RIM-binding proteins. RIMs are active zone proteins that regulate neurotransmitter release. This gene has been found fused to the receptor-type tyrosine kinase gene RET by gene rearrangement due to the translocation t(10;12)(q11;p13) in thyroid papillary carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC216399