

Product datasheet for **RG216399**

ERC1 (NM_015064) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ERC1 (NM_015064) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| 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-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG216399 representing NM_015064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATGGAAGTGCCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGGCGTTCACCCAGGC
 TTCACAGTTCCTTCGCTTGGGTCACCGTCGAACCAACAGTACGGGAGGGAGTTCGGAAGCAGTGTGG
 AGGTGGCAGTGGGAAAACCTTTCAATGAAAAATATAAATCTTTAAATGCTGCCTATGCCACCTCTGGC
 CCTATGTATCTAAGTGACCATGAAAATGTGGGTTGAGAAACACCTAAAAGCACCATGACACTTGGCCGT
 CTGGGGGACGCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCAATATAGCTAGCAGTGG
 GGTGCTAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCTGTGAGTATGGCATCCACTGTACCT
 CACTCCCTTCGTCAGGCGAGAGATAACACAATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAG
 AAAATGATCTCTTGCAGGAGGATGTGGAAGTAAGGAGAGCAAATGAGTCTTCAATGAATAGCATCAA
 GACCTTCTGGAGCCAGAGCTGAAGAAGGAACGAGCCCTGAGAAAAGATGAAGCTTCCAAAATCACCATT
 TGAAGGAACAGTACAGAGTTGTACAGGAGGAAAACCAGCACATGCAGATGACAATCCAGGCTCTCCAGG
 ATGAATTGCGGATCCAGAGGGACCTGAATCAGCTGTTTCAGCAGGATAGTAGCAGCAGGACTGGCGAAC
 TTGTGTAGCAGAGCTGACAGAGGAGAACTTTCAGAGGCTTCATGCTGAGCATGAGCGCAGGCCAAAAGAG
 CTGTTTCTTCTCGAAAGACATTGGAGGAAATGGAGCTGCGTATTGAGACTCAAAAGCAGACCCTAAATG
 CTCGGGATGAATCCATTAAGAAGCTTCTGGAAATGTTGCAGAGCAAAGGACTTTCTGCCAAGGCTACCGA
 GGAAGACCATGAGAGAACAAGACGACTGGCAGAGGCAGAGATGCACGTTTACCTAGAAAAGCCTTTTG
 GAGCAGAAGGAAAAAGAGAACAGTATGTTGAGAGAGGAGATGCATCGAAGGTTTGAGAATGCTCCTGATT
 CTGCCAAAACAAAAGCTCTGAAAAGCTTATTGAGATGAAGGATTCAAAAATTTCTCTATGGAGCGTGG
 GCTTCGAGACCTGGAAGAGGAAATTCAGATGCTGAAATCGAATGGTGTCTTGGAGTACTGAGGAAAAGGAA
 GAAGAAATGAAGCAAATGGAAGTGTATCGGAGCCATTCTAAATTTATGAAAAATGAAGATTGGCCAGGTGA
 AACAGGAGCTGTCCAGAAAGGACACAGAACTACTCGCCCTGCAGACAAAGCTAGAAAACACTCACAACCA
 GTTCTCAGATAGTAAACAGCACATTGAAGTGTGAAGGAGTCTTACTGCTAAGGAGCAGAGGGCTGCC
 ATCCTGCAGACTGAGGTGGATGCTCTCCGATTGCGTTTGGAGAGAAGGAAACCTGTTGAATAAAAAGA
 CAAAACAAATTCAGGATATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACATGACCTCAAGGACAT
 GTTGGATGTGAAGGAGCGGAAGGTTAATGTTCTCAGAAGAAGATTGAAAATCTCAAGAGCAGCTTAGA
 GACAAGGAAAAGCAGATGAGCAGCTTGAAGAACGGGTCAAATCCTTGCAGGCTGACACCACCAACTG
 AACTGCCTTGAACAATTTGGAGGAGGCCCTTGCAGAGAAAGAGCGGACAATTGAACGCTTAAAGGAGCA
 GAGGGACAGAGATGAGCGAGAGAAGCAAGAGGAAATTGATAACTACAAAAAGATCTTAAAGACTTGAAG
 GAAAAAGTCAGCCTGTTGCAAGGCGACCTTTCAGAGAAAGAGGCTTCACTTTTGGATCTGAAAGAGCATG
 CTCTTCTCTGGCATCCTCAGGACTGAAAAAGGACTCACGGCTTAAAGACTAGAGATTGCTTTGGAGCA
 GAAGAAGGAGGAGTGTCTGAAAATGGAATCACAAATGAAAAAGGCACATGAGGCAGCATTGGAAGCCAGA
 GCCAGTCCAGAGATGAGTGACCGAATACAGCACTTGGAGAGAGAGATCACCAGGTACAAAGATGAATCTA
 GCAAGGCCCAGGCAGAAGTTGATCGACTTTAGAAATCTTGAAGGAGTGGAAAAATGAGAAGAATGACAA
 AGATAAGAAGATAGCTGAGTTGGAAAGTCTCACCTCAAGGCAAGTGAAGAGACCAGAATAAGAAGGTAGCA
 AATCTGAAGCACAAAGGAACAGGTGGAAAAAAGAGAGTGCACAAATGTTAGAGGAGCGCGACGACGGG
 AGGACAATCTCAACGACAGCTCTCAGCAGCTACAGGTGGAGGAGTACTGATGGCCATGGAGAAGGTAAA
 GCAGGAACTAGAAATCCATGAAAGCAAAGCTGCTCTCCACCAGCAGTCTCTGGCAGAAAAGGAAACTCAC
 TTGACTAATCTTCGGGCAGAGAGAAGGAAACACTTAGAGGAAAGTCTGGAGATGAAGCAAGAAGCTCTTC
 TGGCTGCCATTAGTAAAAAGACGCCAATATAGCTCTCTTGGAGCTTTCGCTCTAAGAAGAAGACCCA
 AGAGGAAGTGGCTGCCCTGAAGCGGGAGAAGGATCGTCTGGTACAGCAGCTTAAAGCAGCAGACGCAAAAT
 CGAATGAAGCTAATGGCCGACAACACTACGAGGATGACCCTTCAAATCCTCCCATTCCAATCAAACAAATC
 ACAAGCCCTCCCAGACCAGGATGAGGAGGAGGTATATGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216399 representing NM_015064
 Red=Cloning site Green=Tags(s)

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAAYATSG
 PMYLSDHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIIASSGVASDTIAFGEHLLPPVSMASTVP
 HSLRQARDNTIMDLQTLKEVLRENDLLRKDVEVKESKLSSSMNSIKTFWSPELKKERALRKDEASKITI
 WKEQYRVVQEEHQHMQMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVELTEENFQRLHAEHERQAKE
 LFLLRKTLLEEMELRIETQKQTLNARDESIIKLLLEMLQSKGLSAKATEEDHERTRRLAEAEEMHVHLESLL
 EQKEKENSMLREEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLLEEEIQMLKSNALSTEERE
 EEMKQMEVYRSHSKFMKNKIGQVKQELSRKDTELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAA
 ILQTEVDALRLLEEKETMLNKKTKQIQDMAEEKGTQAGEIHDLKDMLDVKERKVNVLQKKIENLQEQLR
 DKEKQMSLKERVKSQADTTNTDTALTTLEEALEKERTIERLKEQRDRDEREQEEIDNYKKDLKDLK
 EKVSLLQGDLSKEASLLDLKEHASSLASSGLKKDSRLKTLIEIALEQKKEECKMESQLKKAHEAALEAR
 ASPEMSDRIQHLEIREITRYKDESSKAQAEVDRLLEILKEVENEKNDKDKKIAELESLSRQVKDQNKKVA
 NLKHKEQVEKKSAQMLEARRREDNLNDSSQQLQVEELLMAEKVKQELESMKAKLSSTQQLAEKETH
 LTNLRAERRKHLEEVLEMKQEAALLAAISEKDANIALLELSSSKKKTQEEVAALKREKDRLVQQLKQQTQN
 RMKLMADNYEDDHFKSSHNSQTNHKKPSPDQDEEEGIWA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

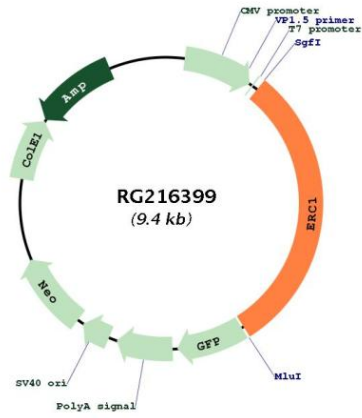


ACCN: NM_015064

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 |
| 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 RG216399