

Product datasheet for **RG239952**

ERC1 (NM_001301248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERC1 (NM_001301248) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERC1
Synonyms:	Cast2; ELKS; ERC-1; RAB6IP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239952 representing NM_001301248. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGTATGGAAGTGCCCGCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGGGCGTTCACCCAGG
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AAGGAGTCCTTGACTGCTAAGGAGCAGAGGGCTGCCATCCTGCAGACTGAGGTGGATGCTCTCCGATTG
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 GACCGAGACCCCTGATCCTCCGTGGACTCACTCCACCAGCTTCCATAACTTGGACGATGACCGGCG
 GCTTGGGAGAATGAGCTGCAGAAGATGACCCGGGGCAGAAATCCGTTGCATCCAAAGCCATGAAAAA
 CTGCCTTTTTTCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239952
 Blue=ORF Red=Cloning site Green=Tag(s)

MYGSARVSGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAYATS
 GPMYLSHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIASSGVASDTIAFGEHLLPPVSMAS
 VPHSLRQARDNTIMDLQTLKEVLRNDLLRKDVEVKESKLSMNSIKTFWSPCLKKERALRKDEASK
 ITIWKEQYRVVQEEHQMQMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVELTEENFQRLHAEHER
 QAKELFLLRKTLEEMELRIETQKQTLNARDESIKKLEMLQSKGLSAKATEEDHERTRRLAEAEMHVH
 LESLLEQKEKENSMLREEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSN
 GALSTEEEREEMKQMEVYRSHKFMKNKVEQLKEELSSKEAQWEELKKKAAGLQAEIGQVKQELSRK
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 TLEEA LAEKERTIERLKEQRDRDEREKQEEIDNYKDLKDLKEKVSLLQGDLSSEKASLLDLKEH
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 FFM

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
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 FPEDSVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSIL
 QNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-MluI

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).
RefSeq:	<u>NM_001301248.1, NP_001288177.1</u>
RefSeq Size:	9284 bp
RefSeq ORF:	3261 bp
Locus ID:	23085
Cytogenetics:	12p13.33
Protein Families:	Druggable Genome
MW:	125.3 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]