

Product datasheet for **SC124850**

ERC1 (NM_178040) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERC1 (NM_178040) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERC1
Synonyms:	Cast2; ELKS; ERC-1; RAB6IP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178040, the custom clone sequence may differ by one or more nucleotides

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ATGTATGGAAGTGCCCGCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGGGCGTTCACCCAGGC
TTCACAGTTCCCCTCGCTTGGGTCAACCGTGAACCAACAGTACGGGAGGGAGTTCGGGAAGCAGTGTGG
AGGTGGCAGTGGGAAAACCCCTTCAATGAAAAATATAAATCTTTAAATGCTGCCTATGCCACCTCTGGC
CCTATGTATCTAAGTGACCATGAAAATGTGGGTTGAGAAACACCTAAAAGCACCATGACACTTGGCCGTT
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GGTTGCTAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCCTGTGAGTATGGCATCCACTGTACCT
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GTTGAATAAAAGACAAAACAAATTCAGGATATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACAT
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CCTCCCGACACGATCATCCAGCCCTCTTAGAAGTTGACCAAAATAGAAGTAAATTAAGTTGTACAT
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_178040 unedited
AGGGCGGCCCGCAATTCGCACGAGGGCGCGGTGACGTCGCGGGCGCCTGGGCCGTGCTG
TGGCGGCGGGCGGCGGCGGAGTGGCGGCGGCGGCTAGTGGCGGCGGCGGCGGTGCCCG
GGCGGCGGCGGCGGCGGCGGAGTGGCGGCGGCGGCGGAGTGGTGTAAAGATACTTCTTCA
AGATTGGACAGCTGGGGACCTTCTCTGATTAACCTTAAACCAACTTGTAGCCATAGAGA
CACCTCACAAAGTTCCCATTTTTGTTGTTGTTGTTGATTTTTCTGCTCACACCTTTCC
TGACCTTGCAACCATGTATGGAAGTGCCCGCTCTGTTGGGAAGGTGGAGCCGAGCAGCCA
GAGCCCTGAGCGTTCACCCAGGCTTCCACGTTCCCTCGCTTGGGTCAACCGTCAACCAA
CAGTACGGGAGGGAGTTCGGGAAGCAGTGTGGAGGTGGCAGTGGGAAAACCTTTCAAT
GGAAAATATACAATCTTTAAATGCTGCCTATGCCACCTCTGGCCCTATGTATCTAAGTGA
CCATGAAAATGTGGTTTCAGAAACACCTAANAGCACCATGACACTTGGCCGTTCTGGGGG
ACGTCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCCATATAGCTAGCAG
TGGGGTTGCTAGTGACACCATAGCATTGGAGAGCATCANCTCCTTCTGTGAGTATGGC
ATCCACTGTACCTCACTCCCTTCGTGAGGCGAGAGATAACACAATCATGGATCTGCAGAC
ACAGCTGAAGGGAGTATTAAGAGAAAAATGATCTNCTGCCNAAAGATGTTGNAAGTAAAG
GACAGCAAATGAGTCTTCCATGGATAGCATCCAAGACCTTCTTGAAGCCCAAAGCTGA
ANAAGGAACCGAGCCTTGAAAAAAGATGAAGCTTCCAAC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_178040 unedited TTTTATTTTGNACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTAAATG GAGTCTCTGTACCCAGGCTGGAGTGCAGTGACACGATCTCGGCTCACCGCAGCCTCTGC CTCCCAGGCTCAAGCGATTCTCTGCCTCCTGAGTAGCTGGGATTACAGGCGTACGCCAC CACGCCTGGCTAATTTTGTATTTTAGTACAGCCGGGTTTTTGGCATCTTGGACAGGCT GGCCTCGAACTCCTGATATAAGGTGATCCGCCTGACTCAGCCTCCACAGTCTGGGATT ACAGCGTGAGCCACTGTGGCCGGCCTCATTTCATATTTCTTAAACATGTTAAAGTCTGTT TACAATTCCTTTCATCCACATGGCATCAAAGCCCTTGCCACCTCACCTGACATTCCTCA TCAATGATCCATTGACTCCCGGGGTACAGGCCTACGACTACATCACAACTTCCCTG CTCTTTCTCTATTTACCACTCTTTGCTGCCATCTCCACCCCTTACTATTTTCCACCC TCCTTGGTGACCTCTGTCTCGCATCTCCCTCTCCCTCTTATTCCGGGCTCCCCCCCCG TTCTTTCTTTTTTCTCTTTTCTTTTCCCCCGTTAAACCCTCTCTCCCCCCCCCGC CTCCCCCTCCCCCTCCCCACCCCTTCCCTCCTTCCCTCCTACCTTCTCCCTTA TCCCATCCCCCTTCTTTTCTTTTCCCCCTCCTGCCTTCCGCTCCCGTCTCCCC CTCCATAACTCATTCCCCAACTCCCTATTTCCCATTTACCCTTTCATACTTAAAGA TTTGTCCCATCATACACCCCCCTTCCCCCGTCTTCCACCCCACTCCTTCCCGCAC CACACTTTTCTTATTCATTTTCTTTCCCAACCCATTCCCTGCTCCCTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_178040
Insert Size:	8370 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_178040.1 , NP_829884.1
RefSeq Size:	6893 bp
RefSeq ORF:	3351 bp
Locus ID:	23085
UniProt ID:	Q8IUD2
Cytogenetics:	12p13.33
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]

Transcript Variant: This variant (epsilon) encodes the longest isoform (epsilon). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.