

Product datasheet for **RC402807**

MERTK (NM_006343) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	MERTK (NM_006343) Human Mutant ORF Clone
Mutation Description:	C115G
Affected Codon#:	115
Affected NT#:	343
Nucleotide Mutation:	MERTK Mutant (C115G), Myc-DDK-tagged ORF clone of Homo sapiens c-mer proto-oncogene tyrosine kinase (MERTK) as transfection-ready DNA
Effect:	Retinitis pigmentosa
Symbol:	MERTK
Synonyms:	c-Eyk; c-mer; MER; RP38; Tyro12
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_006343
ORF Size:	2997 bp
Restriction Sites:	SgfI-MluI
ORF Nucleotide Sequence:	>RC402807 representing NM_006343 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence: >RC402807 representing NM_006343
 Red=Cloning site Green=Tags(s)

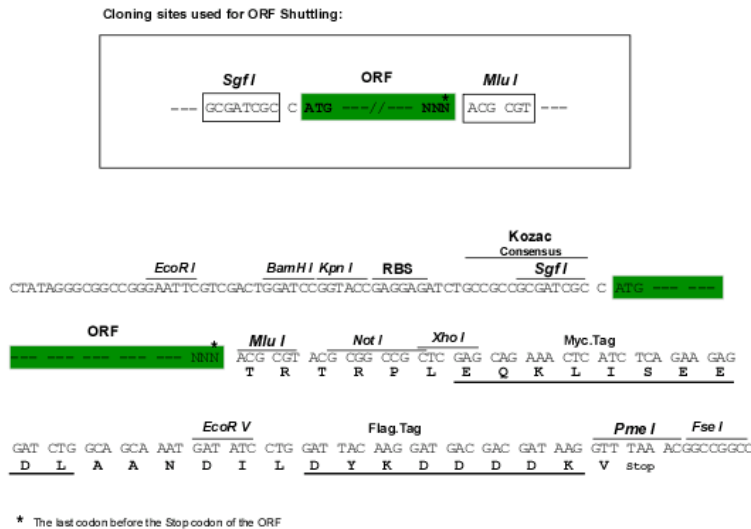
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 LKFMVDIALGMEYLSNRNFLHRDLAARNCLRDDMTVCVADFGLSKKIYSGDYRQRIAKMPVKWIAIE
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 AISVVTAEVHDSKPHEGRYILNGGSEEWEDLTSAPSAAVTAEKNSVLPGERLVRNGVSWSHSSMLPLGSS
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SGPTRRRL**E**QKL**I**SEEDLAAND**I**LDYKDDDDK**V**

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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).
RefSeq:	NP_006334
RefSeq Size:	2997 bp
RefSeq ORF:	3000 bp
Locus ID:	10461
Cytogenetics:	2q13
Domains:	pkinase, TyrKc, S_TKc, ig, IG, FN3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
MW:	109.9 kDa
Gene Summary:	This gene is a member of the MER/AXL/TYRO3 receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). [provided by RefSeq, Jul 2008]