

## Product datasheet for **RC600074**

### **MERTK (NM\_006343) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MERTK (NM_006343) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	MERTK
Synonyms:	c-Eyk; c-mer; MER; RP38; Tyro12
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RC600074 representing leader sequence plus the extracellular domain region of NM\_006343

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG  
CGATCGCC

ATGGGGCCGCGCCCGCTGCCGCTGCTGCTGGGCCCTCTTCCTCCCGCGCTCTGGCGTAGAGCTATCACTG  
AGGCAAGGGAAGAAGCCAAGCCTTACCCTATTCCCGGACCTTTTCCAGGGAGCTGCAAACTGACCA  
CACACCGCTGTTATCCCTTCTCACGCCAGTGGTACCAGCCTGCCTTGATGTTTTACCAACCCAGCCT  
GGAAGACCACATACAGGAAACGTAGCCATTCCCGAGGTGACCTCTGTGCAATCAAAGCCCTACCGCCTC  
TTGCCCTCAAACACACAGTTGGACACATAATACTTTCTGAACATAAAGGTGTCAAATTTAATTGCTCAAT  
CAGTGTACCTAATATATACCAGGACACCACAATTTCTTGGTGGAAAGATGGGAAGGAATTGCTTGGGGCA  
CATCATGCAATTACACAGTTTTATCCAGATGATGAAGTTACAGCAATAATCGCTTCTTCAGCATAACCA  
GTGTGCAGCGTTCAGACAATGGGTGATATCTGTAAGATGAAAATAACAATGAAGAGATCGTGTCTGA  
TCCCATCTACATCGAAGTACAAGGACTTCTCACTTTACTAAGCAGCCTGAGAGCATGAATGTCACCAGA  
AACACAGCCTTCAACCTCACCTGTCAGGCTGTGGGCCCGCTGAGCCCGTCAACATTTTCTGGGTCAA  
ACAGTAGCCGTGTTAACGAACAGCCTGAAAAATCCCCCTCCGTGCTAACTGTTCCAGGCCTGACGGAGAT  
GGCGGTCTTCAGTTGTGAGGCCACAATGACAAAGGGCTGACCGTGTCCAAGGGAGTGCAGATCAACATC  
AAAGCAATTCCTCCCAACCACTGAAGTCAGCATCCGTAACAGCACTGCACACAGCATTCTGATCTCT  
GGGTTCTGGTTTTGATGGATACTCCCGTTCCAGCAATTCAGGTCAAGGAAGCTGATCCGCT  
GAGTAATGGCTCAGTCATGATTTTTAACACCTCTGCCTTACCACATCTGTACCAATCAAGCAGCTGCAA  
GCCCTGGCTAATTACAGCATTGGTGTTCCTGCATGAATGAAATAGGCTGTCTGCAGTGAGCCCTGGA  
TTCTAGCCAGCAGGACTGAAGGAGCCCATCAGTAGCACCTTTAAATGTCACTGTGTTTCTGAATGAATC  
TAGTGATAATGTGGACATCAGATGGATGAAGCCTCCGACTAAGCAGCAGGATGGAGAAGTGGTGGCTAC  
CGGATATCCACGTGTGGCAGAGTGCAGGGATTTCCAAAGAGCTCTGGAGGAAGTTGGCCAGAATGGCA  
GCCGAGCTCGGATCTCTGTTCAAGTCCACAATGCTACGTGCACAGTGGAGATTGCAGCCGTACCAGAGG  
GGGAGTTGGGCCCTTCAAGTCCAGTGAATAATTTATCCCTGCACACGGTTGGGTAGATTATGCCCC  
TCTTCACTCCGGCGCTGGCAACGCAGATCCTGTGCTCATCATC

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:**

>RC600074 representing signal peptide plus the extracellular domain region of NM\_006343

Red=Cloning sites Green= DDK and 6XHIS Tags

MGPAPLPLLLGLFLPALWRRRAITEAREEAKPYPLFPGPFGSLQDHTPLLSLPHASGYQPALMFSPYQ  
GRPHTGNVAIPQVTSVESKPLPLAFKHTVGHILSEHKGVKFNCSISVPNIYQDTTISWWDGKELLGA  
HHAITQFYDPDEVTAIIASFITSVQRSDNGSYICKMKINNEEIVSDPIYIEVQGLPHFTKQPESMNVTR  
NTAFNLTCQAVGPPPEPVNIFWVQNSSRVNEQPEKSPSVLTVPGLTEMAVFSCEAHNDKGLTVSKGVQINI  
KAIPSPPEVSI RNSTAHSILISWVPGFDGYSPPFRNCISIQVKEADPLSNGSVMIFNTSALPHLYQIKQLQ  
ALANYSIGVSCMNEIGWSAVSPWILASTTEGAPSVAPLNVTVFLNESSDNVDIRWMPKPTKQDQDGLVGY  
RISHVWQSAGISKELLEEVGQNGSRARISVQVHNATCTVRIA AAVTRGGVGPFPDPVKIFIPAAGWVDYAP  
SSTPAPGNADPVLII

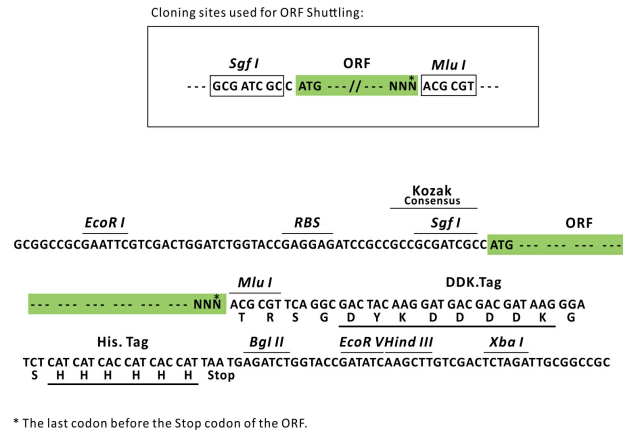
TRSGTRSGDYKDDDDKGSHHHHHH

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8117\\_h12.zip](https://cdn.origene.com/chromatograms/mk8117_h12.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006343

**ORF Size:** 1515 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 extra cellular domain of the protein 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:**

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\\_006343.2](#), [NP\\_006334.2](#)

**RefSeq Size:** 3632 bp

**RefSeq ORF:** 3000 bp

**Locus ID:** 10461

**UniProt ID:** [Q12866](#)

<b>Cytogenetics:</b>	2q13
<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IG, FN3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>MW:</b>	54.9 kDa
<b>Gene Summary:</b>	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]