

## Product datasheet for **RG236775**

### MAPK4 (NM\_001292040) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAPK4 (NM_001292040) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAPK4
Synonyms:	ERK-4; ERK4; p63-MAPK; p63MAPK; PRKM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236775 representing NM_001292040. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTGAGAAGGGTGACTGCATCGCCAGTGTCTATGGGTATGACCTCGGTGGGCGCTTTGTTGACTTC
CAACCCCTGGGCTTCGGTGTCAATGGTTTGGTGTGTGCGCCGTGGACAGCCGGGCTGCCGGAAGGTC
GCTGTGAAGAAGATTGCCCTGAGCGATGCCCGCAGCATGAAGCACGCGCTCCGAGAGATCAAGATCATT
CGGCGCTGGACCACGACAACATCGTCAAAGTGTACGAGGTGCTCGTCCCAAGGGCACTGACCTGCAG
GGTGTGAGCTGTTCAAGTTCAGCGTGGCGTACATCGTCCAGGAGTACATGGAGACCGACCTGGCACGCCTG
CTGGAGCAGGGCAGCTGGCAGAAGAGCATGCCAAGCTGTTTATGTACCAGCTGCTCCGCGGGCTCAAG
TACATCCACTCCGCCAACGTGTGCACAGGGACCTGAAGCCCGCCAACATCTTATCAGCACAGAGGAC
CTCGTGCTCAAGATTGGGGATTTCCGGGTTGGCAAGGATCGTTGATCAGCATTACTCCACAAAGGTTAT
CTGTGAGAAGGGTTGGTAACAAAGTGGTACCGTTCACCCACGACTGCTCCTTTCCCAATAACTACACC
AAAGCCATCGACATGTGGGCCCGCGCTGCATCCTGGCTGAGATGCTTACGGGGAGAATGCTCTTTGCT
GGTACCCCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236775  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAEKGDCIASVYGYDLGGRFVDFQPLGFGVNLVLSAVDSRACRKVAVKKIALSDARSMKHALREIKIIRRLDHDNIVKVEVLGPKGTDLQGELFKFSVAYIVQYMETDLARLLEQGTAAEEHAKLFMYQLRGLKYIHSANVLRDLKPANIFISTEDLVLKIGDFGLARIVDQHYSHKGYLSEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCILAEMLTGRMLFAGTL  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHVMGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEDSVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFAFRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001292040

**ORF Size:** 699 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).

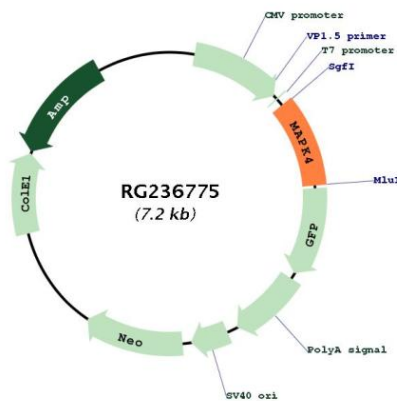
**RefSeq:** [NM\\_001292040.2](#)

**RefSeq Size:** 4375 bp

**RefSeq ORF:** 702 bp

**Locus ID:** 5596  
**UniProt ID:** [P31152](#)  
**Cytogenetics:** 18q21.1-q21.2  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 26.6 kDa  
**Gene Summary:** Mitogen-activated protein kinase 4 is a member of the mitogen-activated protein kinase family. Tyrosine kinase growth factor receptors activate mitogen-activated protein kinases which then translocate into the nucleus and phosphorylate nuclear targets. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

### Product images:



Circular map for RG236775