

## Product datasheet for **RG237198**

### HEXIM2 (NM\_001303442) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEXIM2 (NM_001303442) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEXIM2
Synonyms:	L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237198 representing NM_001303442. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGCCACTCCGAACCAGACCCGCTGTAATGCAGAGTCACCAGTGGCCCTGGAGGAGGCCAAGACC
TCTGGTGCCCGGGGAGCCCCAAACCCCTGAGCGTCATGACTCTGGTGGTTCCTGCCCTGACA
CCGCGGATGGAGAGCCACTCAGAGGATGAAGATCTTGCTGGGGCTGTCGGTGGCTGGGCTGGAACAGT
AGGAGTCCCGGACCCAGAGCCAGGGGGCTGCTCAGCGGAGGCTGTGCTGGCCCGGAAGAAACACCGT
CGGCGGCCATCGAAGCGAAAAGGCACTGGCGACCCTACCTGGAGCTGAGCTGGGCTGAGAAACAACAG
CGGGATGAGAGGCAGAGCCAGAGGGCCTCCCGGTCCGCGAAGAGATGTTCCGCAAGGCCAGCCCGTG
GCCCCCTACAACACCACCCAGTTCTGATGAATGACAGGGACCCGGAGGAGCCAACTTGGATGTGCC
CATGGGATCTCCACCCAGGTTCCAGTGGGAGAGTGAGGCCGGGACAGTGATGGCGGGGCCGAGCG
CACGGTGAGTTCCAGCGAAGGACTTCTCTGAGACTTACGAACGCTTCCACACCGAGAGCCTGCAGGGC
CGCAGCAAGCAGGAGCTGGTGCAGACTACCTGGAGCTGGAGAAGCGGCTGTCCGAGCGGAGGAGGAG
ACTAGGAGGCTGCAGCAGCTGCAGGCGTGACCCGGCCAGCAGTCTGCCGCCAGGTGGAGGAGCTGGCT
GCCGAGGTCCAGAGGCTCCGACCGAAAACCAGCGGCTTCGTGAGGAAACCAGATGTGGAACCGAGAG
GGCTGCCGCTGTGATGAGGAGCCGGTACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237198  
 Blue=ORF Red=Cloning site Green=Tag(s)

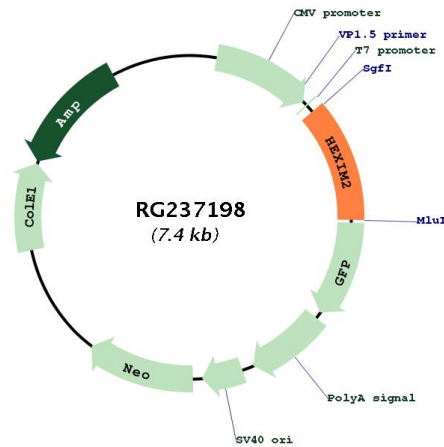
MMATPNQTACNAESPVALEEAKTSGAPGSPQTPPERHDSGGSLPLTPRMESHSEDEDLAGAVGGLGWNS  
 RSPRTQSPGGCSAEAVLARKKHRRRPSKRKRHWRYLELSWAEEKQQRDERQSQRASRVREEMFAKGQPV  
 APYNTTQFLMNDRDPEEPNLDVPHGISHPGSSGESEAGSDGRGRAHGEFQRKDFSETYERFHTESLQG  
 RSKQELVRDYLELEKRLSQAEETRRLLQLQACTGQQSCRQVEELAAEVQRLRTENQRLRQENQMWNRE  
 GCRCDEEPTG  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303442

<b>ORF Size:</b>	858 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001303442.1</a> , <a href="#">NP_001290371.1</a>
<b>RefSeq Size:</b>	1234 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	124790
<b>UniProt ID:</b>	<a href="#">Q96MH2</a>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	32.4 kDa
<b>Gene Summary:</b>	This gene encodes a member of the HEXIM family of proteins. This protein is a component of the 7SK small nuclear ribonucleoprotein. This protein has been found to negatively regulate the kinase activity of the cyclin-dependent kinase P-TEFb, which phosphorylates multiple target proteins to promote transcriptional elongation. This gene is located approximately 7 kb downstream from related family member HEXIM1 on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]