

Product datasheet for **RG237197**

HEXIM2 (NM_001303441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEXIM2 (NM_001303441) 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:	>RG237197 representing NM_001303441. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATGGCCACTCCGAACCAGACCGCCTGTAATGCAGAGTCACCAGTGGCCCTGGAGGAGGCCAAGACC
TCTGGTGCCCGGGGAGCCCCAAACCCCTGAGCGTCATGACTCTGGTGGTTCCTGCCCTGACA
CCGCGGATGGAGAGCCACTCAGAGGATGAAGATCTTGCTGGGGCTGTCGGTGGCTGGGCTGGAACAGT
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CGGCGGCCATCGAAGCGAAAAGGCACTGGCGACCCTACCTGGAGCTGAGCTGGGCTGAGAAACAACAG
CGGGATGAGAGGCAGAGCCAGAGGGCCTCCCGGTCCGCGAAGAGATGTTCCGCAAGGCCAGCCCGTG
GCCCCCTACAACACCACCCAGTTCCTGATGAATGACAGGGACCCGAGGAGCCCAACTTGGATGTGCC
CATGGGATCTCCACCCAGGTTCCAGTGGGAGAGTGAGGCCGGGACAGTGATGGCGGGGCCGAGCG
CACGGTGAGTTCAGCGGAAGGACTTCTCTGAGACTTACGAACGCTTCCACACCGAGAGCCTGCAGGGC
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ACTAGGAGGCTGCAGCAGCTGCAGGCGTGACCCGGCCAGCAGTCTGCCGCCAGGTGGAGGAGCTGGCT
GCCGAGGTCCAGAGGCTCCGACCGAAAACCAGCGGCTTCGTGAGGAAACCAGATGTGGAACCGAGAG
GGCTGCCGCTGTGATGAGGAGCCGGTACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237197
 Blue=ORF Red=Cloning site Green=Tag(s)

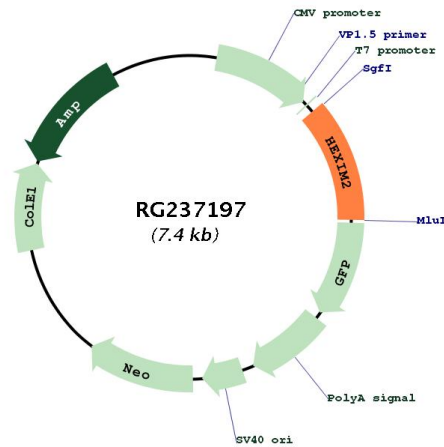
MMATPNQTACNAESPVALEEAKTSGAPGSPQTPPERHDSGGSLPLTPRMESHSEDELAGAVGGLGWNS
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 APYNTTQFLMNDRDPEEPNLDVPHGISHPGSSGESEAGSDGRGRAHGEFQRKDFSETYERFHTELSLQG
 RSKQELVRDYLELEKRLSQAEETRRLLQLQACTGQQSCRQVEELAAEVQRLRTENQRLRQENQMWNRE
 GCRCDEEPTG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303441

ORF Size:	858 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_001303441.1 , NP_001290370.1
RefSeq Size:	1488 bp
RefSeq ORF:	861 bp
Locus ID:	124790
UniProt ID:	Q96MH2
Cytogenetics:	17q21.31
Protein Families:	Transcription Factors
MW:	32.4 kDa
Gene Summary:	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]