

Product datasheet for **MG209236**

Klh12 (NM_178633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klh12 (NM_178633) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klh12
Synonyms:	6030411N21Rik; ABP-KELCH; AU020744; Mav
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209236 representing NM_178633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGACGCCGCGCCACTGCCTCCCGCATGCACAAAGCAGGGTCATCAGAAGCCCCTCGATTCAAAGACG
 AGAATCCTGAGAAACATTGCCCACTGACGGTGAACCCCTGGCACATGAAGAAAGCCTTTAAAGTCATGAA
 CGAACTCAGAAGTCAAAATCTGCTGTGTGACGTACGATTGTGGCAGAAGACATGGAGATCCCTGCTCAC
 CGCGTGGTCTGGCGGCCTGCAGTCCGTACTTCCACGCCATGTTTACAGGTGAGATGAGCGAGAGCCGAG
 CAAAGAGAGTTTGAATAAAGGAGGTGGACGGCTGGACCTGAGGATGCTGGTTCGATTACGTTTACACGGC
 AGAGATTCAGGTACAGAGGAGAACGTGCAGGTCTCCTCCAGCAGCTGGCCTGTACAGTTACAGGAT
 GTGAAGAAGACATGCTGTGAATTTTGAATCCCAGTTCACCCTGTCAACTGCTTAGGAATCCGGGCTT
 TTGCTGATATGCATGCATGCACAGACCTCCTGAATAAGGCCAACACGTATGCAGAACACATTTTGCAGA
 TGTCTACTTAGTGAAGAGTTTCTTAACCTCGGCATCGAGCAGGTGTGCAGCTTAATCTCCAGTGATAAA
 CTCACCATTTCTCCGAGGAGAAGGTATTTGAAGCAGTCATCGCCTGGGTAAACCACGATAAGGACGTAA
 GACAGGAGTTCATGGCTCGGCTCATGGAGCATGTCGGATTACCTCTGCTTCTCCGGGAGTACTTGGTGCA
 GCGGGTTGAAGAGGAAGCATTGGTGAAGAACAGCAGTGCCTGCAAAGATTACCTCATTGAAGCCATGAAG
 TACCACCTGCTGCCGACAGAGCAGCGCATGTTAATGAAGAGCGTGCAGCCCGCCTGAGGACGCCCATGA
 ACCTTCCCAAATTGATGGTGGTGGTTCGGGGGCCAGGCACCAAAGGCTATCCGAAGTGTGGAATGCTACGA
 CTTCAAAGAAGACGGTGGCACCAGGTGGCAGAGCTGCCTTCCAGGAGGTGCAGGGCAGGGATGGTCTAT
 ATGGCTGGGCTGGTCTTTGCTGTTGGTGGCTTCAATGGCTCACTAAGAGTTCGACTGTAGATTCCTATG
 ACCCCGTGAAAGACCAGTGGACCAGCTGGCGAACATGCGAGACCGAAGAAGCACACTTGGAGCCGCGGT
 GCTGAATGGGCTGCTGTACGCCGTGGGGGCTTTGACGGCAGCACAGGTCTATCGTCTGTGAAGCATA
 AACATAAAATCTAATGAGTGGTTTCATGTGCGCCCAATGAACACGAGGAGGAGCAGTGTGGTGTGGCG
 TTGTTGGAGGTTTCTCTATGCCGTGGGGGTTACGATGGAGCATCGCGCCAGTGTCTTAGCACAGTAGA
 ATGCTATAATGCTACTGCAAACGAGTGGACTTACATAGCAGAAATGAGCACCAGACGGAGCGGAGCAGGT
 GTTGGTGTGTTAAACAATTATTATGCTGTAGGAGGTCATGATGGTCTTTAGTACGAAAAAGTGTG
 AAGTATATGACCCACCACAAATGCCTGGAGACAGGTTGCAGATATGAACATGTGCAGAAGAAATGCAGG
 TGTCTGTGCAGTAAATGGTCTGTTGTATGTTGTCGGAGGAGATGATGGTCTCTGTAACCTTGGCGTCGGTA
 GAGTATTATAACCCACCACGATAAATGGACAGTTGTGCTCTTGTATGAGCACGGGGAGAAGCTACG
 CAGGGGTACAGTTATTGATAAACCGTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209236 representing NM_178633
 Red=Cloning site Green=Tags(s)

METPPLPACTKQGHQKPLDSKDENEKHCPLTVNPWHMKKAFKVMNELRSQNLCDVTIVAEDMEIPAH
 RVVLAACSPYFHAMFTGEMSESRAKRVRIKEVDGWTLRMLVDYVYTAIEIQVTEENVQVLLPAAGLLQLQD
 VKKTCCEFLSQLHPVNCLGIRAFADMHACTDLLNKANTYAEQHFADVLSSEFLNLGIEQVCSLSSDK
 LTISSEEVFEAVIAWVNHDKDVRQEFMARLMEHVRLPLLPREYLVQRVEEALVKNSSACKDYLIEAMK
 YHLLPTEQRMLMKSVRTRLRTPMNLPKLMVVVGGQAPKAIRSVCEYDFKEERWHQVAELPSRRCRAGMVY
 MAGLVFAVGGFNGSLRVRTVDSYDPVKDQWTSVANMRDRRSTLGA AVLNGLLYAVGGFDGSTGLSSVEAY
 NIKSNEWFHVAPMNTRRSSVGVVGGLLYAVGGYDGASRQCLSTVECYNATANEWYIAEMSTRRSAG
 VGVLNLLYAVGGHDGPLVRKSVEVYDPTTNAWRQVADMNMCRNAGVCAVNGLLYVVGDDGSCNLASV
 EYYPNTDKWTVVSSCMSTGRSYAGVTVIDKPL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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).
Reconstitution Method:	<ol style="list-style-type: none">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_178633.3
RefSeq Size:	3040 bp
RefSeq ORF:	1782 bp
Locus ID:	77113
UniProt ID:	Q8JZP3
Cytogenetics:	8 B3.1
Gene Summary:	Promotes growth of cell projections in oligodendrocyte precursors. Responsible for degradative ubiquitination of the WNK kinases WNK1, WNK3 and WNK4 (By similarity). Component of a cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates the ubiquitination of target proteins, such as NPTXR, leading most often to their proteasomal degradation. Plays a role in the reorganization of the actin cytoskeleton. [UniProtKB/Swiss-Prot Function]