

Product datasheet for **MC224796**

Kalrn (NM_001164268) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kalrn (NM_001164268) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kalrn
Synonyms: 2210407G14Rik; AV235988; DUET; E530005C20Rik; Gm539; Hapip; TRAD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224796 representing NM_001164268
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGACCGCTTCTGGGACCAGTGGTATCTTTGGTATCTCCGCTTGCCTCGGCTTCTGGATCGAGGAT
 CTTTTCGGAATGATGGTTTGAAGCTTCTGATGTCCTTCTCATCCTAAAGGAGAAAGTGGCCTTTGTGTC
 TGGGGGGCGTGACAAGCGAGGTGGACCCATCCTGACCTTCCCTGCCCGAAGCAATCATGACAGAATAAGA
 CAGGAAGACCTACGAAACTTGTGACGTATTTGGCCAGCGTGCCAAGTGAGGACGTTTGGAAACGTGGCT
 TCACCGTCATCATCGACATGCGGGGCTCCAAGTGGGATCTCATCAAGCCCTCCTCAAGACGCTGCAGGA
 AGCCTTCCCCGCGAGATCCATGTGGCCCTCATCATCAAGCCTGACAACCTTCTGGCAGAAGCAGAAGACC
 AACTTTGGCAGCTCCAAATTCATCTTTGAGACAAGCATGGTGTCTGTGGAGGGCCTCACGAAGCTGGTGG
 ACCCTCCCAGCTGACAGAGGAGTTTGACGGCTCCCTGGATTACAACCATGAGGAGTGGATTGAGTTGCG
 CCTCTCCCTGGAGGAGTCTTCAACAGTGCGGTCCACCTGCTCTACGCCTTGGAGACCTGCAGGAGATG
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 CTGCAGCGATGGCTTCTCAGGGCGCAACTGCATCCAGGAAGTGCCGACTTCCAGAGCCTTGTACCCAAG
 ATCACCAGCCTCCTGGACAAGCTGCATTCCACCCGACAACACCTGCACCAAATGTGGCACGTGCGAAAGC
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 CAGACACAGCACAATCACTTTGCCATGAACTCCATGAATGCCTATGTCAACATCAACCGCATCATGTCTG
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 CTACACAGAGGTGAGCCAGGATGGCAAAGCACTACTGGATGTCCTGCAGCGTCCCTGAGTCTGGGAAC
 TCTGAGTCCCTCAGCCACAGCCAACACTCAAGGCGGTCCACCAGGTGCTGGATGTGGTCCACGAGG



TGCTGCACCATCAGCGACGGCTCGAGAGCATCTGGCAGCACCGCAAGGTGCGGCTTACCAGCGGCTGCA
 GCTGTGTGCTTCCAGCAGGATGTGCAGCAGGTGCTGGACTGGATTGAAAACCATGGCGAGGCTTTCTC
 AGCAAACACACTGGGGTTGGCAAGTCTTGCATCGAGCACGTGCACTACAGAAGAGGCATGATGACTTTG
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 TGGGGAATGTGACCCGGAGGAGATCTACAAGGCAGCCCGCACCTGGAGGTGCGCATCCAAGACTTTGTG
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 GGAGCTGATCAAGCAGTTCCAGCAGCAGACCGCCACCCTGGATGCCACTCTCAATGTATCAAGGAA
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 TCGATGCTCAACGCCAGCCTGGTCAACGCCAGCTTTTGTGCGGAGGCAGAGCAGCTGCAGCGGGAGCATG
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 GCTCCAGGCCGGCCACTACGACGCAGACGCCATCCGGGAATGTGCTGAGAAGGTGGCCCTCCACTGGCAA
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 AGCAGGTGTGCAGTGTCTGGAGAGCTTGGAGCAGGAGTACCGGAGAGACGAGGACTGGTGTGGTGGGAG
 AGACAAGCTGGGCGGGCGGAGAGATGGACCAGTTATCCACTCCTCAGCAAGCAGCTGGAGCAGAAG
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 CGAGCTCTGAGAGGGAGAATCGAGTCTGCACTTCTGGACCTTGAAGAAGCGGCGTTAGACCAGTGT
 CAGCAATATGTGGTGTGAGCGCAGTGTAAAGCAGGCACTGGACTGGATCCAAGAAACAGGAGAATATT
 ACCTCTCAACACATACCTCCACCGGAGAGACCACGGAGGAGACTCAGGAGCTGCTGAAAGAGTATGGAGA
 ATTCAGGGTGCCTGCCAAGCAAACGAAGGAGAAGGTGAAACTTCTGATCCAGCTAGCAGACAGCTTTGTG
 GAAAAGGGCCACATCCACGCCACAGAGATACGGAATGGGTGACCACGGTGGACAAGCACTACCGCGATT
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 GGACCTAGAGCTGGACATCATCCAGCAAGCCTTTCGGATCGGGAGGTCAAGCTCCGGGACGCTAACCAT
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 AGAGATACCCCCGGCATCTCAATAAGGAACATATCATCTTCGGAACATCCAGGAGATCTATGACTTC
 CATAACAACATCTTCTCAAAGAGCTGGAGAAGTACGAGCAGCTGCCTGAGGATGTGGGACACTGCTTTG
 TTACCTGGGCAGACAAATTTAGATGTATGTCACTACTGTAAAAACAAGCCTGATTCCAACCAGCTGAT
 TACCTAATTAAGCCTGTCCAGAGGTTACCAAGTACCAGCTGCTCCTGAAGGAACCTTCAACTTGGCTGTG
 AAGAAGGAAAGGAGAGCTGAAGGATGGCCTGGAGGTGATGCTCAGTGTCCCAAGAAAGCAACGATGC
 CATGCATGTCAGCATGCTGGAAGGTTTCGATGAAAACCTGGATGTACAGGGGGAGTTGATTCTCCAGGAT
 GCCTTTCAAGTGTGGACCCAAAGTCGCTGATCCGGAAGGGGCGGGAGCGCCATCTGTTCTCTTTGAGA
 TCTCTTGGTGTAGCAAAGAGATCAAAGACTTTCAGGACACACGAAATATGTTTACAAGAACAAGCT
 ACTGACCTCAGAGCTGGGTGTGACCGAGCATGTAGAAGGTGACCCTGCAAATTCGCTTGTGGTCTGGG
 CGCACCCCATCTCAGACAATAAAACAGTGTCAAAGCTTCCAACATCGAAACCAAGCAGGAATGGATCA
 AGAACATTCGAGAAGTATTGAGGAGGATCATTATCTTAAAGGCGCTTAAAGGAGCCAATTCAGCT
 CCCCAAAACACCAGCCAAACTGAGGAACAATAGTAAGAGGGATGGGTAGAGGATGGTGACGCCAAGGG
 GATGGGAGCAGCCAGCCAGATACCATATCCATTGCTCCAGGACCTCTCAGAACACAGTGGAAAGTGACA
 AGGATGGCAACCTTGTTCTCGTTGGCACCTGGGACCTGGAGATCCTTCTCCACTTACGTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001164268
Insert Size:	4965 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001164268.1</u> , <u>NP_001157740.1</u>
RefSeq Size:	6430 bp
RefSeq ORF:	4965 bp
Locus ID:	545156
UniProt ID:	<u>A2CG49</u>
Cytogenetics:	16 B3
Gene Summary:	<p>Promotes the exchange of GDP by GTP. Activates specific Rho GTPase family members, thereby inducing various signaling mechanisms that regulate neuronal shape, growth, and plasticity, through their effects on the actin cytoskeleton. Induces lamellipodia independent of its GEF activity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice pattern in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a substantially shorter and distinct C-terminus, compared to isoform 1.</p>