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Product datasheet for SC309929

KALRN (NM_007064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KALRN (NM_007064) Human Untagged Clone
Tag:	Tag Free
Symbol:	KALRN
Synonyms:	ARHGEF24; CHD5; CHDS5; DUET; DUO; HAPIP; TRAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309929 representing NM_007064. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGGGCGGCGACAGGGCTTACACCCGAGGTCCCTCTTTGGGGTGGCTCTTTGCTAAGTGCTGCTGT
TGCTTCCCGTGTAGAGATGCATACTCTCATTCCTCAAGCGAGAATGGAGGCAAGTCCGAGTCCGTGGCC
AACCTGCAGGCCCAGCCCTCCCTGAACTCCATCCACAGTTCCCCGGGTCCCAAGCGCTCCACCAACACT
CTTAAGAAGTGGCTGACGAGTCCTGTGCGTCGGCTTAACAGCGGGAAGGCAGATGGAAACATCAAAAAG
CAGAAGAAAGTTCGCGATGGTCGGAAGAGCTTTGACCTGGGATCTCCCAAGCCTGGGGATGAAACAACC
CCTCAGGGAGACAGCGCTGATGAGAAGAGCAAGAAAGGTTGGGGTGAAGATGAGCCGGATGAAGAGTCA
CACACACCCCTCCCACCACCTATGAAGATTTTTGACAACGACCCTACACAGGATGAAATGTCCTCCTCT
TTGCTAGCAGCCCGGCAGGCTTCCACTGAAGTACCTACTGCTGCAGACCTTGTCAATGCAATAGAAAAG
TTGGTCAAAAACAAGCTGAGTCTAGAAGGAAGCTCATACCGGGGGAGCTTGAAAGACCCTGCAGGCTGC
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GTCCTGGAGGAGAATGTGGACAATGATCCCTGCAAGTTTGCACTCATGAACAGAGAGACTTCTGAGAGG

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GTTGTTCTGCAAGCCGCCAACGCTGACATCCAGCAGGCCTGGGTGCAGGACATCAATCAAGTCTTAGAA
ACACAGCGAGACTTTTTGAATGCACTGCAATCGCCCATTGAGTATCAACGGAAAGAAAGGAGCACAGCT
GTGATGAGGTCTCAACCTGCCAGGCTTCCCCAAGCCAGCCCCAGGCCCTACTCCTCTGTTCCTGCGGGC
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GCCAGCGACCATTCCCCCGCCGCCGAGGGCTGGGTCCCAGGCAGCATCCTGGCGCCCCTCACCAAAGCC
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AACAAAGTCTCTGTTAAAGAGACGAACAGTTCCGAGGAATCAGAGTGTGATGATCTTGACCCTAATACT
AGCATGGAGATCTTAAATCCAAATTTCATCCAAGAAGTGGCCCCAGAATTCCTTGTGCCCTTGGTGGAT
GTGACCTGCTTGCTTGGGGACACAGTGATACTGCAGTGCAAAGTCTGTGGGCGGCCAAAGCCCACCATC
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ATAGCAACAAATGACCACGGGACCACATCAACGTCTGCAACAGTCAAAGTGCAAGGTGTTCCAGCAGCC
CCTAACCGCCCCATTGCCCAGGAGAGAAGCTGCACCTCCGTGATTCTCCGCTGGCTGCCCCCCTCCAGC
ACAGGAAACTGCACTATTTCTGGTTACACTGTGGAGTACAGAGAGGAAGGTTCTCAGATCTGGCAGCAG
TCAGTGGCTTCGACCTTGGACACTTACCTCGTCATCGAAGACCTTAGTCCCGGGTGTCCTTATCAGTTC
AGAGTCAGTGCCAGTAACCCCTGGGGAATCAGCCTTCCCAGCGAGCCCTCGGAGTTTGTGCGACTTCCA
GAATATGATGCTGCTGCTGATGGTGCCACCATTTCTTGGAAGGAAAATTTTGACTCAGCTTACACTGAG
CTGAATGAAATTGGAAGAGGCCGTTTCTCTATAGTAAAGAAATGCATTCACAAAGCTACCCGCAAAGAT
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CAGCACCTACAGCACCCCCAGTACATCACTCTCCATGACACCTATGAGTCCCCCACATCCTACATCCTG
ATCTTGGAACTGATGGATGATGGCCGGCTCTTAGACTACCTTATGAATCATGATGAACTGATGGAGGAA
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TTGGACATAAAGCCTGAAAACCTGCTCATTGACCTACGGATTCCAGTGCCTCGAGTGAAGCTCATTGAC
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GCCCCAGAAGTCATTCAAGGCATCCCCGTCTCCCTGGGGACAGACATCTGGAGCATCGGGGTTCTGACA
TATGTCATGCTGAGTGGGGTCTCCCCCTTCTTGGATGAGAGCAAAGAGGAGACATGTATCAACGTATGC
AGGGTGGATTTCAGCTTCCCCCATGAATACTTCTGTGGTGTGAGCAATGCTGCCAGAGATTTCATCAAT
GTGATCTTACAGGAAGATTTTCGGAGGCGGCCCACAGCAGCCACATGCTTGCAGCATCCATGGCTGCAG
CCCCATAATGGCAGCTACTCTAAGATCCCCCTGGACACCTCCCGCCTAGCATGCTTCATAGAACGTCGC
AAGCACCAGAATGATGTGCGGCCTATTCCCAATGTCAAGAGCTACATTGTCAACCGGGTGAACCAAGGG
ACGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_007064

Insert Size: 3870 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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_007064.4
RefSeq Size:	10897 bp
RefSeq ORF:	3870 bp
Locus ID:	8997
UniProt ID:	O60229
Cytogenetics:	3q21.1-q21.2
Domains:	RhoGEF, pkinase, TyrKc, PH, S_TKc, ig, IGc2, IG, FN3
Protein Families:	Druggable Genome, Protein Kinase
MW:	144.5 kDa
Gene Summary:	Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with the huntingtin-associated protein 1, which is a huntingtin binding protein that may function in vesicle trafficking. [provided by RefSeq, Apr 2016] Transcript Variant: This variant (3) differs in the 5' UTR and lacks many exons in the 5' coding region, compared to variant 1. The encoded protein (isoform 3), also known as Duo, is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.