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Product datasheet for SC337415

KA1 (GRIK4) (NM_001282473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KA1 (GRIK4) (NM_001282473) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIK4
Synonyms:	EAA1; GluK4; GluK4-2; GRIK; KA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001282473, the custom clone sequence may differ by one or more nucleotides

ATGCCCCGCGTCTCGGCGCCTTTGGTGCTGCTTCCTGCGTGGCTCGTGATGGTCGCCTGCAGCCCGCACT
CCTTGAGGATCGCTGCTATCTTGGACGACCCCATGGAGTGCAGCAGAGGGGAGCGGCTCTCCATCACCCT
GGCCAAGAACCGCATCAACCGCGCTCCTGAGAGGCTGGGCAAGGCCAAGGTCGAAGTGGACATCTTTGAG
CTTCTCAGAGACAGCGAGTACGAGACTGCAGAAACCATGTGTCAGATCCTCCCCAAGGGGGTGGTCGCTG
TCCTCGGACCATCGTCCAGCCCAGCCTCCAGCTCCATCATCAGCAACATCTGTGGAGAGAAGGAGGTCCC
TCACTTCAAAGTGGCCCCAGAGGAGTTCGTCAAGTTCCAGTTCCAGAGATTCACAACCCTGAACCTCCAC
CCCAGCAACACTGACATCAGCGTGGCTGTAGCTGGGATCCTGAACTTCTTCAACTGCACCACCGCCTGCC
TCATCTGTGCCAAAGCAGAATGCCTTTTAAACCTAGAGAAGCTGCTCCGGCAATTCCTTATCTCCAAGGA
CACGCTGTCCGTCCGCATGCTGGATGACACCCGGGACCCCACCCCGCTCCTCAAGGAGATCCGGGACGAC
AAGACCGCCACCATCATCATCCACGCCAACGCCTCCATGTCCCACACCATCCTCCTGAAGGCAGCCGAAC
TTGGGATGGTGTCAGCCTATTACACATACATCTTCACTAATCTGGAGTTCTCACTCCAGAGAATGGACAG
CCTTGTGGATGATCGTGTCAACATCCTGGGATTTTCCATTTTCAACCAATCCCATGCTTTCTTCCAAGAG
TTTGCCCAGAGCCTCAACCAGTCCTGGCAGGAGAACTGTGACCATGTGCCCTTCACTGGGCCTGCGCTCT
CCTCGGCCCTGCTGTTTGATGCTGTCTATGCTGTGGTGACTGCGGTGCAGGAACTGAACCGGAGCCAAGA
GATCGGCGTGAAGCCCTTGTCCTGCGGCTCGGCCCAGATCTGGCAGCACGGCACCAGCCTCATGAACTAC
CTGCGCATGGTAGAATTGGAAGGTCTTACCGGCCACATTGAATTCAACAGCAAAGGCCAGAGGTCCAACT
ACGCTTTGAAAATCTTACAGTTCACAAGGAATGGTTTTCGGCAGATCGGCCAGTGGCACGTGGCAGAGGG
CCTCAGCATGGACAGCCACCTCTATGCCTCCAACATCTCGGACACTCTCTTCAACACCACCCTGGTCGTC
ACCACCATCCTGGAGAACCCATATTTAATGCTGAAGGGGAACCACCAGGAGATGGAAGGCAATGACCGCT
ACGAGGGCTTCTGTGTGGACATGCTCAAGGAGCTGGCAGAGATCCTCCGATTCAACTACAAGATCCGCCT
GGTTGGGGATGGCGTGTACGGCGTTCCCGAGGCCAACGGCACCTGGACGGGAATGGTCGGGGAGCTGATC
GCTAGGAAAGCAGATCTGGCTGTGGCAGGCCTCACCATTACAGCTGAACGGGAGAAGGTGATTGATTTCT
CTAAGCCATTCATGACTCTGGGAATTAGCATTCTTTACCGCGTTCATATGGGACGCAAACCCGGCTATTT
CTCCTTCCTGGACCCATTTTCTCCGGGCGTCTGGCTCTTCATGCTTCTAGCCTATCTGGCCGTCAGCTGT
GTCCTCTTCCTGGTGGCTCGGTTGACGCCCTACGAGTGGTACAGCCCACACCCATGTGCCCAGGGCCGGT
GCAACCTCCTGGTGAACCAGTACTCCCTGGGCAACAGCCTCTGGTTTCCGGTCGGGGGGTTCATGCAGCA
AGGCTCCACCATCGCCCCTCGCGCCTTATCCACCCGCTGTGTCAGTGGCGTCTGGTGGGCATTCACGCTG
ATCATCATCTCATCCTACACGGCCAACCTGGCAGCCTTCCTGACCGTGCAGCGCATGGATGTGCCCATTG
AGTCAGTGGATGACCTGGCTGACCAGACCGCCATTGAATATGGCACAATTCACGGAGGCTCCAGCATGAC
CTTCTTCCAAAATTCCCGCTACCAGACCTACCAACGCATGTGGAATTACATGTATTCCAAGCAGCCCAGC
GTGTTCGTGAAGAGCACAGAGGAGGGAATCGCCAGGGTGTTGAATTCCAACTACGCCTTCCTCCTGGAAT
CCACCATGAACGAGTACTATCGGCAGCGAAACTGCAACCTCACTCAGATTGGGGGCCTGCTGGACACCAA
GGGCTATGGGATTGGCATGCCAGTCGGTATGCGGGAGAGGAACAGCCTCTTTGGGTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001282473

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:	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_001282473.2, NP_001269402.1
RefSeq Size:	3057 bp
RefSeq ORF:	2298 bp
Locus ID:	2900
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a protein that belongs to the glutamate-gated ionic channel family. Glutamate functions as the major excitatory neurotransmitter in the central nervous system through activation of ligand-gated ion channels and G protein-coupled membrane receptors. The protein encoded by this gene forms functional heteromeric kainate-preferring ionic channels with the subunits encoded by related gene family members. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013] Transcript Variant: This variant (3) has an additional exon in the 5' UTR but lacks several 3' terminal exons, compared to variant 1. Its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR. The resulting isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.