OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC122962

Ketosamine 3 kinase (FN3KRP) (NM_024619) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ketosamine 3 kinase (FN3KRP) (NM_024619) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ketosamine 3 kinase
Synonyms:	FN3KL
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_024619 edited
GAACATGGAGGAGCTGCTGAGGCGCGAGCTGGGCTGCAGCTCTGTCAGGGCCACGGGCCA
CTCGGGGGGCGGGTGCATCAGCCAGGGCCGGAGCTACGACACGGATCAAGGACGAGTGTT
CGTGAAAGTGAACCCCAAGGCGGAGGCCAGAAGAATGTTTGAAGGTGAGATGGCAAGTTT
AACTGCCATCCTGAAAACAAACACGGTGAAAGTGCCCAAGCCCATCAAGGTTCTGGATGC
CCCAGGCGGCGGGAGCGTGCTGGTGATGGAGCACATGGACATGAGGCATCTGAGCAGTCA
TGCTGCAAAGCTTGGAGCCCAGCTGGCCGATTTACACCTTGATAACAAGAAGCTTGGAGA
GATGCGCCTGAAGGAGGCGGGCACAGTGGGGAGAGGAGGTGGGCAGGAGGAACGGCCCTT
TGTGGCCCGGTTTGGATTTGACGTGGTGACGTGCTGTGGATACCTCCCCCAGGTGAATGA
CTGGCAGGAGGACTGGGTCGTGTTCTATGCCCGGCAGCGCATTCAGCCCCAGATGGACAT
GGTGGAGAAGGAGTCTGGGGACAGGGAGGCCCTCCAGCTTTGGTCTGCTCTGCAGTTAAA
GATCCCTGACCTGTTCCGTGACCTGGAGATCATCCCAGCCTTACTCCACGGGGACCTCTG
GGGTGGAAACGTAGCAGAGGATTCCTCTGGGCCGGTGATTTTTGACCCAGCTTCTTTCTA
CGGCCACTCGGAATATGAGCTGGCAATAGCTGGCATGTTTGGGGGCTTTAGCAGCTCCTT
TTACTCCGCCTACCACGGCAAAATCCCCAAGGCCCCAGGATTCGAGAAGCGCCTTCAGTT
GTATCAGCTCTTTCACTACTTGAACCACTGGAATCATTTTGGATCGGGGTACAGAGGATC
CTCCCTGAACATCATGAGGAATCTGGTCAAGTGAGCGGGCCTTACTCTGGAAGGAGGCCT
CAGAGGTTTCTCCACAGTCCTCTTCTGGGCAAATTCTTGTTTCTTCACATGCCGGACTAG
CTTAAGACCAATGCAGTAGCTTATTTCCAAGCCTTGCAAAGTATATAATATCTAAGAGGA
AAGGTTTTGTCATCCCAGCGTTGTCCACTTTGTGGGGCTTTGTAGGTAGACGGAGCCACA
CTACAGGCAGGGTATGAGCAGAGGGATGTATGGAGTGTGGGTGACTCTGAGCCTCACTGC
TGCTGCAAGGTGGGGAAACTGTAAGTGAACCCCTGTGGGTGCGGGGGAGGGTATCCGGTG
CGCAGGGAGGTGGCCAGCGCCCCCGGGCACTGCTGCTCATAGGTACCTTTCCGCTGCCTC
CTCCCTGCTCTCCTGTGCAGGAATGTCTCTGAGCTGTTCACGTTGATGCTTCTTGGTTGG
CAAGACTTGGGTGTAGACATGAAACCATCTTACTAAGAGCGTCTTAAAATGACCAATTCC
AGAATCAAGCGTATTCCGTTTTCTTCCTGCATGATCCCTGGGCCCTCCCGCAGGCTGAGC
AAGTCTGTAAACTGATTCTGGGAGAAACCAAGCTGCTGGCCGTAGGATGTCCTTGGGTAC
ATCCAGGAGTCTTCATTGCTTCTGTTATTACCCCGTCTCCTCTGCCATTTTCTACAGCTT
GCTGAGTTGTCATTCCTTTGCAACATTAAAATACATGCTGAACTCAAAAAAAAAAAAAAA
AAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024619 unedited
NCCATTTCATATTTGTAAACGACTCATATAGGCGGCACGCGAATTCGCACGAGGAACATG
GAGAGCTGCTGAGGCGCGAGCTGGGCTGCAGCTCTGTCAGGGCCACGGGCCACTCGGGGG
GCGGGTGCATCAGCCAGGGCCGGAGCTACGACACGGATCAAGGACGAGTGTTCGTGAAAG
TGAACCCCAAGGCGGAGGCCAGAAGAATGTTTGAAGGTGAGATGGCAAGTTTAACTGCCA
TCCTGAAAACAAACACGGTGAAAGTGCCCAAGCCCATCAAGGTTCTGGATGCCCCAGGCG
GCGGGAGCGTGCTGGTGATGGAGCACATGGACATGAGGCATCTGAGCAGTCATGCTGCAA
AGCTTGGAGCCCAGCTGGCCGATTTACACCTTGATAACAAGAAGCTTGGAGAGATGCGCC
TGAAGGAGGCGGGCACAGTGGGGAGAGGAGGTGGGCAGGAGGAACGGCCCTTTGTGGCCC
GGTTTGGATTTGACGTGGTGACGTGCTGTGGATACCTCCCCCAGGTGAATGACTGGCAGG
AGGACTGGGTCGTGTTCTATGCCCGGCAGCGCATTCAGCCCCAGATGGACATGGTGGAGA
AGGAGTCTGGGGACAGGGAGGCCCTCCAGCTTTGGTCTGCTCTGCAGTTAAAGATCCCTG
ACCTGTTCCGTGACCTGGAGATCATCCCAGCCTTACTCCACGGGGACCTCTGGGGTGGAA
ACGTAGCAGAGGATTCCTCTGGGCCGGTGATTTTTGACCCAGCTTCTTTCTACGGCCACT
CGGAATATGAGCTGGGCATAGCTGGCATGTTTGGGGGCTTTAGCAGCTCCTTTTACTCCG
CCTACCACGGCANAATCCCCAAGGCCCCATGATTCG

Restriction Sites: Please inquire

ACCN: NM_024619

Insert Size: 1691 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:	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_024619.2, NP_078895.2
RefSeq Size:	1781 bp
RefSeq ORF:	930 bp
Locus ID:	79672
UniProt ID:	Q9HA64
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
Gene Summary:	A high concentration of glucose can result in non-enzymatic oxidation of proteins by reaction of glucose and lysine residues (glycation). Proteins modified in this way are less active or functional. This gene encodes an enzyme which catalyzes the phosphorylation of psicosamines and ribulosamines compared to the neighboring gene which encodes a highly similar enzyme, fructosamine-3-kinase, which has different substrate specificity. The activity of both enzymes may result in deglycation of proteins to restore their function. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012] Transcript Variant: This variant (1) encodes the functional protein.