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Product datasheet for SC100671

SELK (SELENOK) (NM_021237) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SELK (SELENOK) (NM_021237) Human Untagged Clone
Symbol:	SELK
Synonyms:	HSPC030; HSPC297; SELK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100671 sequence for NM_021237 edited (data generated by NextGen Sequencing) ATGGTTTACATCTCGAACGGACAAGTGTTGGACAGCCGGAGTCAGTCTCCATGGAGATTA TCTTTGATAACAGATTTCTTCTGGGGAATAGCTGAGTTTGTGGTTTTGTTTTTCAAAACT CTGCTTCAGCAAGATGTGAAAAAAAGAAGAAGCTATGGAAACTCATCTGATTCCAGATAT GATGATGGAAGAGGGCCACCAGGAAACCCTCCCCGAAGAATGGGTAGAATCAATCATCTG CGTGGCCCTAGTCCCCCTCCAATGGCTGGTGGATGAGGAAGGTAA Clone variation with respect to NM_021237.3
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021237 unedited GTAATACGACTTACTATAGGGCGGCNCGCGAATTCGCACGAGGGCAGAGGGAGATACAGA AACCGACAGGGGCCAGGCGCCCGGTGGCTCCGAAGCGGGGAAGTGGGACAAGATGGTTTA CATCTCGAACGGACAAGTGTTGGACAGCCGGAGTCAGTCTCCATGGAGATTATCTTTGAT AACAGATTTCTTCTGGGGAATAGCTGAGTTTGTGGTTTTGTTTTTCAAAACTCTGCTTCA GCAAGATGTGAAAAAAAGAAGAAGCTATGGAAACTCATCTGATTCCAGATATGATGATGG AAGAGGGCCACCAGGAAACCCTCCCCGAAGAATGGGTAGAATCAATCATCTGCGTGGCCC TAGTCCCCCTCCAATGGCTGGTGGATGAGGAAGGTAAATGTCTGCTCTAAGAAGCAGACA ACCGGACATGCGCATTCATAGCAGAAGGAAACCATCAAGAAGTGGAAGGCTGACCATGAT GAGCAGTAGATGAATGTGTATGTCTAAACAAGGACTGCTCTGTGTCCTCACAGATGAATG AGGTCATGCTGGGAATTCCCTCTGCAGGGAACTGGCCTGACTGACATGCAGTTCCATAAA TGCAGATGTTTGTCTCATTACCTTTTTGTATAGTTTATTAAAGTATTAATATAGTTTTAA TAAGTAAATATTTTTAGGTTGCAGAATGGACTCCTCATCTTTATATTCACGAANAAGCAA TCTGAAGAAAAACAATANAGCCTGTGTATTTAGCACTGGTAGTGTCACCTTTTTCACTTC TGAAACACTGGTCATTGGTAACTTTNTCTCATTTATAATCACTGTATTTATTTAGTAGTA TGCATAGCATATCTGTGCTCTTGAATTAATTTTTATCTTTACATAATTGNCTCATCCATC TTAATACACTGNGTCTAATTTGCTACAA
Restriction Sites:	NotI-NotI

View online »

ACCN:	NM_021237
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). The expression of this clone is not guaranteed due to the nature of selenoproteins.
OTI Annotation:	This clone encodes a selenoprotein containing the rare amino acid selenocysteine (Sec). Sec is encoded by UGA codon, which normally signals translational termination. Expression of this clone is not guaranteed due to the nature of selenoproteins.
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_021237.3, NP_067060.2
RefSeq Size:	832 bp
Locus ID:	58515
UniProt ID:	Q9Y6D0
Cytogenetics:	3p21.1
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene belongs to the selenoprotein K family. It is a transmembrane protein that is localized in the endoplasmic reticulum (ER), and is involved in ER-associated degradation (ERAD) of misfolded, glycosylated proteins. It also has a role in the protection of cells from ER stress-induced apoptosis. Knockout studies in mice show the importance of this gene in promoting Ca(2+) flux in immune cells and mounting effective immune response. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Pseudogenes of this locus have been identified on chromosomes 6 and 19.[provided by RefSeq, Aug 2017]