

Product datasheet for **SC104328**

FUK (BC032542) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUK (BC032542) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUK
Synonyms:	1110046B12Rik; FLJ39408; fucokinase; L-fucose kinase; OTTHUMP00000082728
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104328 sequence for BC032542 edited (data generated by NextGen Sequencing)

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ATGGAGCAGCCGAAGGGAGTTGATTGGACAGTCATCATCTGACCTGCCAGTACAAGGAC
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GGACCCAGGACCTGCTGTGGATGCTGGACCACCAGGAGGATGGGGGCGAGGCCCTGCGA
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 GCCACGCTGGCCTCTCGCCGGGACCTGTTCTTCCGNNAGGCCCTGCATAAGGCGCGGCAC
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 GTTGAAGTGGACACTCAGGGCCTGAGCCTGAAGCTGCTGGGGACCGAGGCCTCAACCTGT
 TGCCCTTCCCATGA

Clone variation with respect to BC032542.1
 522 c=>t;1428 t=>c;1656 c=>n;1657 c=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for BC032542 unedited
 TCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG
 CTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGCCCGGAATT
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 CTGCCAGTACAAGGACAGTGTCCAGGTCTTTCAGAGAGAACTGGAAGTGGCGCAGAAGCG
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 GGGTCGAGACTTCCCCTTTGATGACTGTGGCAGGGCTTTCACCTGCCTCCCCGTGGAGAA
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 GCTGTCCCGGTNTTGTGTTTTTGCATTCTCCCTGATGCTGGAACCGACCAGGGGAGTT
 CTTGGGGGGGAGCN

Gene Summary:

The protein encoded by this gene belongs to the GHMP (galacto-, homoserine, mevalonate and phosphomevalonate) kinase family and catalyzes the phosphorylation of L-fucose to form beta-L-fucose 1-phosphate. This enzyme catalyzes the first step in the utilization of free L-fucose in glycoprotein and glycolipid synthesis. L-fucose may be important in mediating a number of cell-cell interactions such as blood group antigen recognition, inflammation, and metastasis. While several transcript variants may exist for this gene, the full-length nature of only one has been described to date. [provided by RefSeq, Jul 2008]