

# Recombinant Full Length Human CATSPER1 Protein, GST-tagged

**Cat. No.** CATSPER1-2753HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CATSPER1 full-length ORF (AAH36522.1, 1 a.a. - 780 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	780 amino acids
<b>Description</b>	Calcium ions play a primary role in the regulation of sperm motility. This gene belongs to a family of putative cation channels that are specific to spermatozoa and localize to the flagellum. The protein family features a single repeat with six membrane-spanning segments and a predicted calcium-selective pore region. [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	116.5 kDa
<b>AA Sequence</b>	MDQNSVPEKAQNEADTNNADRRFFRSHSSPPHHRPGHSRALHHYELHHHGVPHQ GESHHPPPEFQDFHDQALSSHVHQSHHHSEARNHGRAHGPTGFGLAPSQGAVPSH RSYGEDYHDELQRDGRRRHHDGSQYGGFHQQSDSHYHRGSHHGRPQYLGENLSH YSSGVPHHGEASHHGGSYLPHGPNPYSESFHHSEASHLSGLQHDESQHHQVPHR GWPHHHQQVHHHGRSRHHEAHQHKGKSPHHGETISPHSSVGSYQRGISDYHSEYHQ GDHHPSEYHHGDHPHHTQHYYHQTHRHRDYHQHQDHHGAYHSSYLHG DYVQST SQLSIPHTSRSLIHDAPGPAASRTGVFPYHVAHPRGSAHSMTRSSSTIRSRVTQMSK

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KVHTQDISTKHSEDWGKEEGQFQKRKTGRLQRTRKKGHSTNLFQWLWEKLTFLIQ  
 GFREMIRNLTQSLAFETFIFFVVCLNTVMLVAQTFAEVEIRGEWYFMALDSIFFCIYVV  
 EALLKIIALGLSYFFDFWNNLDFIMAMAVLDFLLMQTHSFAIYHQSLFRILKVFKSLRA  
 LRAIRVLRRLSFLT SVQEVGTGLGQSLPSIAAILILMFTCLFLFSAVLRALFRKSDPKRF  
 QNIFTTIFTLFTLLTLDDWSLIYMDSRAQGAWYIIPILIIYIIIQYFIFLNLVITVLVDSFQTA  
 LFKGLEKAKQERAARIQEKLLEDSTELRAAEPKEVASEGTMKRLIEKKFGTMTTEKQ  
 QELLFHYLQLVASVEQEQQKFRSQAAVIDEIVDTTFEAGEEDFRN

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**  
 CATSPER1 cation channel, sperm associated 1 [ Homo sapiens ]

**Official Symbol**  
 CATSPER1

**Synonyms**  
 CATSPER1; cation channel, sperm associated 1; cation channel sperm-associated protein 1; CATSPER; hCatSper; sperm ion channel; sperm-associated cation channel 1; SPGF7; MGC33335; MGC33368;

**Gene ID**  
 117144

**mRNA Refseq**  
 NM\_053054

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**Protein Refseq** NP\_444282

**MIM** 606389

**UniProt ID** Q8NEC5

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