

Product datasheet for **RG210713**

CATSPER3 (NM_178019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER3 (NM_178019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CATSPER3
Synonyms:	CACRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210713 representing NM_178019 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCAACACCGTCACCAGCGCCACTCGAGAGTCATTTCTAGTTCACCAGTTGACACTACATCGGTGG
GATTTTGGCCAACATTCAAGAAATTTAAGAGGAACGATGATGAATGTCGGGCATTTGTGAAGAGAGTCAT
AATGAGCCGTTTCTTTAAGATAATTATGATTAGCACTGTCACATCGAATGCGTTTTTTATGGCCTTGTTGG
ACCAGTTATGACATAAGGTACCGCTTGTTCAGACTTCTTGAGTTCCTGGAGATCTCTTTGTGTCCATCT
GCACATCTGAGTTGTCCATGAAGTCTATGTGGACCCCATCAACTACTGGAAGAACGGCTACAACCTGCT
GGATGTGATCATTATCATCGTTATGTTTTACCCTATGCCCTCCGCCAGCTCATGGGCAAACAGTTCCT
TACCTGTATATCGCTGATGGCATGCAGTCCCTGCGCATCCTCAAGCTTATCGGCTATAGCCAGGGCATCC
GGACGCTGATCACCGCCGTGGGGCAGACAGTCTACACCGTGGCCTCTGTGCTCCTCTGCTCTTCTCTCT
CATGTACATCTTCGCTATCTTGGGCTTCTGCTGTTTGGATCTCCAGACAATGGTGACCATGATAACTGG
GGGAACCTGGCTGCGGCTTTTTTACCCTCTTCAGCTTGGCCACGGTTGATGGCTGGACAGACCTGCAGA
AGCAGTTGGACAATCGGGAATTTGCTTTGAGCCGGGCATTCACCATCATCTTTCATCTTGTCTCGCCTCTT
CATCTTCTCAACATGTTCTGTTGGTGTGATGATCATGCACACAGAGGACTCCATCAGAAAGTTTGGCGA
GAGCTGATGTTGGAGCAGCAGGAGATGCTCATGGGAGAGAAGAGTATTCTGAGCAGGCGCAGCAGGAGG
AGATCAGCAGGCTGATGCACATACAGAAAAATGCTGACTGCACAAGTTTCAAGTGGTGGGAGAACTT
TAAGAAGACCTTGAGCCCACTGACCCAATGGTCTTGGATGATTTTGGCACTAGCTTACCCTTCATCGAT
ATCTACTTTTCCACTCTGGACTACCAGGACACAAGTCCACAAGCTTCAAGAGCTGACTATGAGATCG
TGCATGTGCTGAGCCTAATGCTGGAAGACTTGCCCCAGGAGAAGCCCCAGTCCTTGGAAAAGGTGGATGA
GAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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MSQHRHRHSRVISSSPVDTTSVGFCPTFKKFKRNDDECRAFVKRVIMSRFFKIIMISTVTSNAFFMALW
 TSYDIRYRLFRLLEFSEIFFVSICTSEL SMKVVYDPIN YWKN GYNLLDVIIIVMFLPYALRQLMGKQFT
 YLYIADGMQSLRILKLGYSQGIRTLITAVGQTVYTVASVLLLLLFLMYIFAILGFCFLFGSPDNGDHDNW
 GNLA AAFFTL FSLATVDGWTDLQKQLDNREFALSRAFTIIFILLASFIFLNMFGVMIMHTEDSIRKFER
 ELMLEQQEMLMGEKQVILQRQQEEISRLMHIQKNADCTSFSELVENFKKTL SHTDPMVLDDFGTSLPFID
 IYFSTLDYQD TT VHKLQELYEI VHVLSLMLLEDLPQEK PQSLEKVDEK

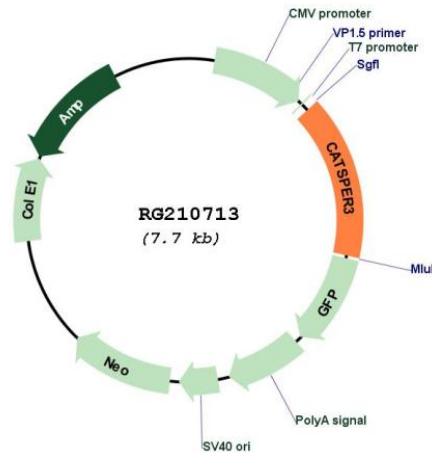
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178019

ORF Size:	1194 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_178019.1 , NP_821138.1
RefSeq Size:	1338 bp
RefSeq ORF:	1197 bp
Locus ID:	347732
UniProt ID:	Q86XQ3
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	Voltage-gated calcium channel that plays a central role in calcium-dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte.[UniProtKB/Swiss-Prot Function]