

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hTRPV5           |
| Accession:     | NP_062815        |
| Insert size:   | 2202bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

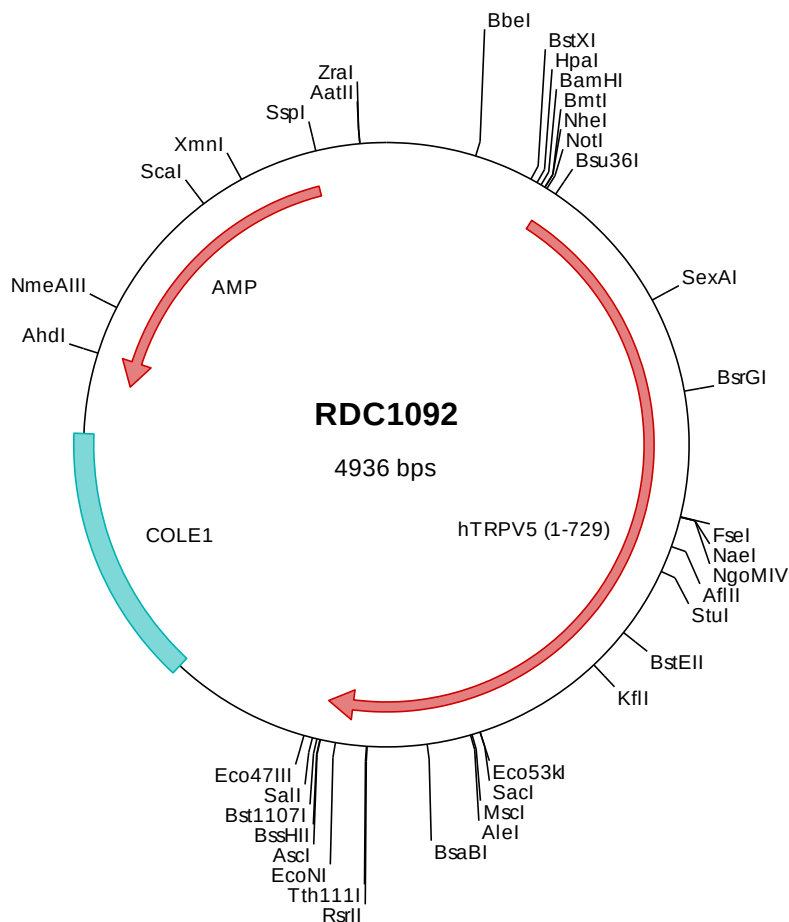
## hTRPV5 cDNA Plasmid

**TRPV5 transient receptor potential cation channel, subfamily V, member 5 [ *Homo sapiens* (human) ]**

**Also known as:** CAT2; ECAC1; OTRPC3

### Summary:

TRPV5 is a member of the transient receptor potential (TRP) family of membrane proteins. TRPV5 is a constitutively active calcium selective cation channel thought to be involved in Ca<sup>2+</sup> reabsorption in kidney and intestine. TRPV5 is activated by low internal calcium level and the current exhibits an inward rectification. Heteromeric assembly with TRPV6 seems to modify channel properties.





## > RDC1092 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcggggc tcttcgctat
301  tacgccagct ggcgaagggt ggatgtgctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggateccgata tgcgtagcgc ggcgcgcacc atgggggggt ttctacctaa ggcagaagggt cccgggagcc aactccagaa
501  aettctgccc tcttcttggt tcagagaaca agactgggac cagcacctgg acaagcttca tatgtgtcag cagaagaggga ttctagatgc tccactgctt
601  cgagcatcca aggaaaatga cctgtctggt cttaggcaac ttctactgga ctgcacctgt gacgttcgac aaagaggagc cctgggggag acggcgctgc
701  acatagcagc cctctatgac aacttggagg cggccttggg gctgatggag gctgcccag agctggtctt tgagcccacc acatgtgagg cttttgcagg
801  tcagactgca ctgcacatgc cttgtgtgaa ccagaatgtg aacctgtgtc gtgcccgtgt caccgcaggt gccagtgtct ctgccagagc cacaggcact
901  gcttccggcc gtagtccccc caacctcact taactttggg agcacccttt gtcctttgct gcctgtgtga acagcgagga gatcgtgogg ctgctcattg
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2001 aaccgtctgt tgcgaattct atgactaccc catggcactg ttccaccaact ttgagctttt tctcactggt attgatgcac ctgccaacta cgactgggac
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2201 ggggtggcca ggagaggagt gagctctgga gggcccagg ctgtggcacc acagtgatgc tggagcggaa gctgctcgc tgccctgtgc ctcgctccgg
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```

## > RDC1092 Translated Insert Sequence

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101  aapelvfpep tceafagqta lhiavvnqnv nlvralltrr asvsaratgt afrsprnli yfgehplsfa acvnseeivr lliehgadir aqdslngtvl
201  hililpnkt facqmynl1l sydgghdhlq pldlvpnhqg ltpfklagve gntvmfghl qkrrhigwty gpltsilydl teidswgeel sflelvssd
301  krearqileq tpvkelvsfk wnkygrpyfc ilaalyllm icfttccvyr plkfrggnrt hsrditilqg kllqeyetr ediirlvgel vsiylvavil
401  lleipdifrv gasryfgkti lgppfhviii tyaslvlvtm vmrltntnge vvpmsfalvl gwcsvmyftr gfgmlgpfiti miqkmifgd1 mrfcwl mavv
501  ilgfasafyi ifqtedpts1 gqfydypmal fttfelfltv idapanydvd lpfmfsivnf afaiiatllm lnlfiammgd thwrvagerd elwraqvvat
601  tvmlerklpr clwprsgicg cefglgdrwf lrvenhndqn plrvlryvev fksndkddq ehpsekqpsg aesgtlaras lalptsslsr tasqssshrg
701  weilrqntlg hlnlglnlse gdgeevyfhf
```