

Specifications:

Gene:	hTRPM8
Accession:	Q7Z2W7
Insert size:	3327bp
Concentration:	10µg at 0.2µg/µL

hTRPM8 cDNA Plasmid

TRPM8 transient receptor potential cation channel, subfamily M, member 8 [*Homo sapiens*]

Also known as: TRPP8; LTRPC6

Summary:

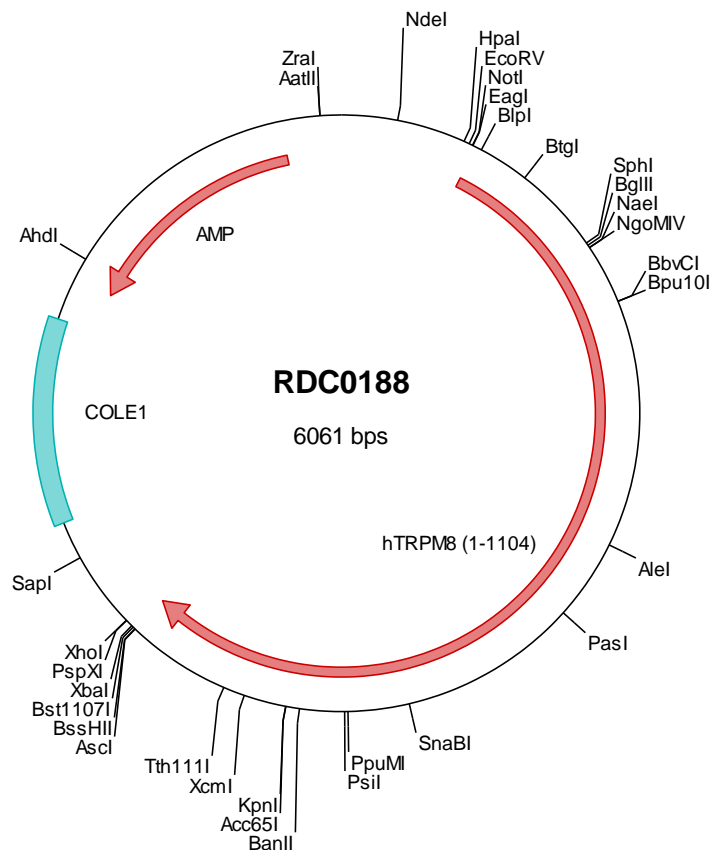
TRPM8 functions as a cold receptor in sensory neurons but is also expressed in tissues not exposed to ambient temperatures, as well as in cancer tissues. TRPM8 is expressed in prostate and in most in prostate tumors. TRPM8 is also expressed in non-prostatic primary tumors such as colon, lung, breast and skin tumors. There are two shorter splice variants of TRPM8, termed short TRPM8 α and short TRPM8 β . Both variants are in a closed configuration with the C-terminal tail of the full-length TRPM8 channel, resulting in stabilization of its closed state and thus reducing both its cold sensitivity and activity. The sensation of coolness triggered by eucalyptol or menthol may be explained by the fact that menthol and cool temperatures sensations are detected by this protein.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0188 Plasmid DNA Sequence

1 tcgctggctt cggatgatgac ggtgaaacc tetgacacat gcagctccc gagacggtca cagcttctct gtaagcggat gccgggagca gacaagcccg
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201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcccggcc tcttcgctat
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> RDC0188 Translated Insert Sequence

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201 isrseeni v aiglaawgm v srdtllirnc daegyflaqy lmddftrdpl yildnnthl llvndgchgh ptveaklrnq lekyiserti qisnyggkip
301 ivcfaggggk etlkaintsi knkipcvvve gsgqiadvia slvedealt ssavkeklvr flprtvsrlp eeeteswikw lkeilecshl ltvikmeeag
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601 lakvkdina ageseelane yetravelft ecyssdedla eqllvyscea wggsnclela veatdqhfa ppgvqnlfsk qwygeisrdt knwkiilclf
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