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Product datasheet for SC206657

AVPR V2 (AVPR2) (NM_000054) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	AVPR V2 (AVPR2) (NM_000054) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	AVPR2
Synonyms:	ADHR; DI1; DIR; DIR3; NDI; NDI1; V2R
ACCN:	NM_000054
Insert Size:	468 bp
Insert Sequence:	>SC206657 3'UTR clone of NM_000054 The sequence shown below is from the reference sequence of NM_000054. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TCCTCCCTGGCCAAGGACACTTCATCGTGAGGAGCTGTTGGGTGTCTTGCCTCTAGAGGCTTTGAGAAG CTCAGCTGCCTTCCTGGGGCTGGTCCTGGGAGCCACTGGGAGGGGGACCCGTGGAGAATTGGCCAGAGC CTGTGGCCCCGAGGCTGGGACACTGTGTGGCCCTGGACAAGCCACAGCCCCTGCCTGGGTCTCCACATC CCCAGCTGTATGAGGAGAGCTTCAGGCCCCAGGACTGTGGGGGCCCCTCAGGTCAGCTCACTGAGCTGG GTGTAGGAGGGGCTGCAGCAGAGGCCTGAGGAGTGGCAGGAAAGAGGGAGCAGGTGCCCCCAGGTGAGA CAGCGGTCCCAGGGGCCTGAAAAGGAAGGACCAGGCTGGGGCCAGGGGACCTTCCTGTCTCCGCCTTTC TAATCCCTCCCTCCTCATTCTCTCCCTAATAAAAATTGGAGCTCATTTTCCACA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_000054.7

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Summary: This gene encodes the vasopressin receptor, type 2, also known as the V2 receptor, which belongs to the seven-transmembrane-domain G protein-coupled receptor (GPCR) superfamily, and couples to Gs thus stimulating adenylate cyclase. The subfamily that includes the V2 receptor, the V1a and V1b vasopressin receptors, the oxytocin receptor, and isotocin and mesotocin receptors in non-mammals, is well conserved, though several members signal via other G proteins. All bind similar cyclic nonapeptide hormones. The V2 receptor is expressed in the kidney tubule, predominantly in the distal convoluted tubule and collecting ducts, where its primary property is to respond to the pituitary hormone arginine vasopressin (AVP) by stimulating mechanisms that concentrate the urine and maintain water homeostasis in the organism. When the function of this gene is lost, the disease Nephrogenic Diabetes Insipidus (NDI) results. The V2 receptor is also expressed outside the kidney although its tissue localization is uncertain. When these 'extrarenal receptors' are stimulated by infusion of a V2 selective agonist (dDAVP), a variety of clotting factors are released into the bloodstream. The physiologic importance of this property is not known - its absence does not appear to be detrimental in NDI patients. The gene expression has also been described in fetal lung tissue and lung cancer associated with alternative splicing. [provided by RefSeq, Jul 2008]

Locus ID: 554

MW: 17.1