

## Product datasheet for SC212794

### VARP (ANKRD27) (NM\_032139) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	VARP (ANKRD27) (NM_032139) Human 3' UTR Clone
Symbol:	VARP
Synonyms:	PP12899; VARP
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_032139
Insert Size:	1169 bp
Insert Sequence:	>SC212794 3'UTR clone of NM_032139 The sequence shown below is from the reference sequence of NM_032139. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCCCAAGAGGTTAGTGCTTCCCGGTCCTAACAGGAATGAGGAGTTGTTGAACCCACTGCTAGGAAGCAA
GGATGCAACAAGATGATGCTGAGCGTGAACACATCTGAGAATAAATGTGCTTCCATGAGACTGGCTTG
AGAAGTCTTCAGACCAAGTTCCCTGAAAGCTTTTCTGTGGCAGGAAAGAATGCAACAAAAAAGTTAAC
ACCACCATCTCTCCTCTTCAAAGCTAATGAATACAATTGAAACAGACAAAAATCCAGTAGCATCCA
GATCCTTAAGCCAGAGGTGCATGCTTCTTTTAAAGTATGAGGGTTTGTGGTACAGTGGGAGAGGTTT
CACCACCGCATTCTGACCTCCTCTCCCAAAAGGTGCTAAACCTCTGACCTGTGTACATTCAACAAC
CACAGCTAGAATTCCTCCACCTAGGATTAAGCTGGAGAGAAGTAAGTAATTTAGGTTTCATGGTACTGT
AGAGGCCAGGCTGAAATGTCATATCTGAAGGAAGAAAGCAGCAGCTGGACAATGTTTCTTTGCAAAGCA
ACACTCGAACCAAAAGATGCCTCAATCCCATTTTGATATTCATTTTAGTGAAAGGATGCATCAGACCTG
TTCCACATCATGCACATGGGAAAGGGTGGTTATCATTTTCTTCTAACAAGTAGGTACAGATATTCGGT
TACTACACGTGCACCTGTAGCAGTATTTCTAGAAACATCCCTTTTGTGAGAACCTCCCTTGAATGTC
TGTCACACTCACCTGACGGGATGGTTACTGGATTAGAGAGTAGATTTGGCACATCTTTTCTTAGTCT
TTTGATTCAAATTCAAAACCTTAACAGCACAAACCAGTCCAGAGTTACTTTTCGGTTAGAATTTATTGCCA
TTTATTCTTTTTATAAATTTCTATAGATTATACTGTTATTTTTATGTTATTGGCCTAGAGCTACACGT
ATATGGGTTTGTCTGAGTCCGTTTTCAAATGACCTTGTGATAGGGAAATGGTTTTGTCCATGTTCTTG
GAAATACTTGTGTATGTACAGAAGGAAGGGAGGGATTATTTTTCTACAAAGTAATTTATGATTTCTAAT
TTTCTAATGTGCCTTGGATATGTGCCAAATGATGGAAAAGAAACAGTAACTTTATGATTCTTGA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_032139.3</a>
<b>Summary:</b>	May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (PubMed:16525121, PubMed:18477474). May regulate the participation of VAMP7 in membrane fusion events; in vitro inhibits VAMP7-mediated SNARE complex formation by trapping VAMP7 in a closed, fusogenically inactive conformation (PubMed:23104059). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (By similarity). Involved in the regulation of neurite growth; the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (By similarity). Proposed to be involved in Golgi sorting of VAMP7 and transport of VAMP7 vesicles to the cell surface; the function seems to implicate kinesin heavy chain isoform 5 proteins, GOLGA4, RAB21 and MACF1 (PubMed:22705394). Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (PubMed:19745841). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with VPS29 (PubMed:24856514). Regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]
<b>Locus ID:</b>	84079
<b>MW:</b>	45