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Product datasheet for RC201800L1V

HSP27 (HSPB1) (NM_001540) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	HSP27 (HSPB1) (NM_001540) Human Tagged ORF Clone Lentiviral Particle
Symbol:	HSP27
Synonyms:	CMT2F; HEL-S-102; HMN2B; HS.76067; Hsp25; HSP27; HSP28; SRP27
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_001540
ORF Size:	615 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC201800).`
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.
RefSeq:	NM_001540.2
RefSeq Size:	914 bp
RefSeq ORF:	618 bp
Locus ID:	3315
UniProt ID:	P04792
Cytogenetics:	7q11.23
Domains:	HSP20
Protein Pathways:	MAPK signaling pathway, VEGF signaling pathway

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MW: 22.8 kDa

Gene Summary: This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. [provided by RefSeq, Aug 2017]