

Product datasheet for **TR320280**

MCK10 (DDR1) Human shRNA Plasmid Kit (Locus ID 780)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MCK10 (DDR1) Human shRNA Plasmid Kit (Locus ID 780)
Locus ID:	780
Synonyms:	CAK; CD167; DDR; EDDR1; HGK2; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	DDR1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 780). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001202521 , NM_001202522 , NM_001202523 , NM_001297652 , NM_001297653 , NM_001297654 , NM_001954 , NM_013993 , NM_013994 , NM_001954.1 , NM_001954.2 , NM_001954.3 , NM_001954.4 , NM_013993.1 , NM_013993.2 , NM_013994.1 , NM_013994.2 , NM_001202521.1 , NM_001202522.1 , NM_001202523.1 , NM_001297652.1 , NM_001297653.1 , NM_001297654.1 , BC013400 , BC013400.2 , BC008716 , BC070070 , BM875592
UniProt ID:	Q08345
Summary:	Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen. Expression of this protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).