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Product datasheet for TL311383

MSH2 Human shRNA Plasmid Kit (Locus ID 4436)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MSH2 Human shRNA Plasmid Kit (Locus ID 4436)
Locus ID:	4436
Synonyms:	COCA1; FCC1; hMSH2; HNPCC; HNPCC1; LCFS2; MMRCS2
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	MSH2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 4436). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_000251, NM_001258281, NM_000251.1, NM_000251.2, NM_001258281.1, BC021566, BC021566.1, BC001122, BC012599, NM_000251.3
UniProt ID:	P43246
Summary:	This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
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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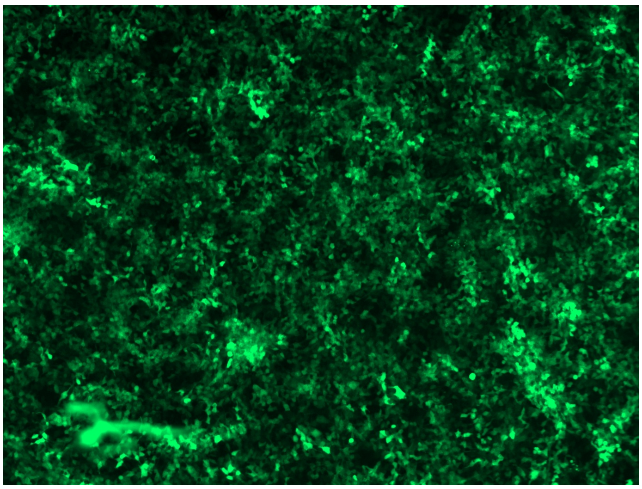
Performance Guaranteed:

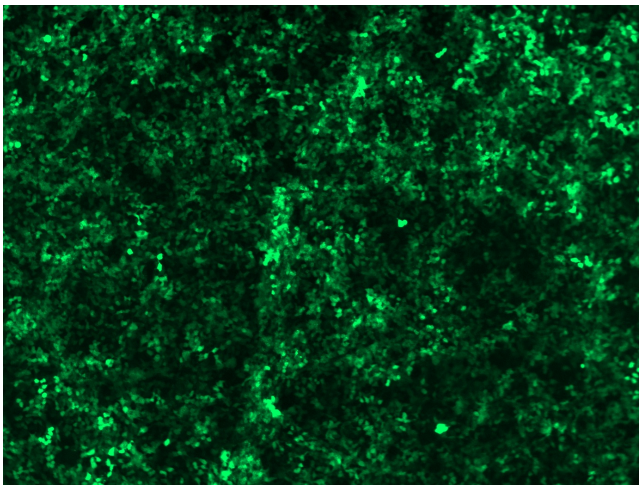
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

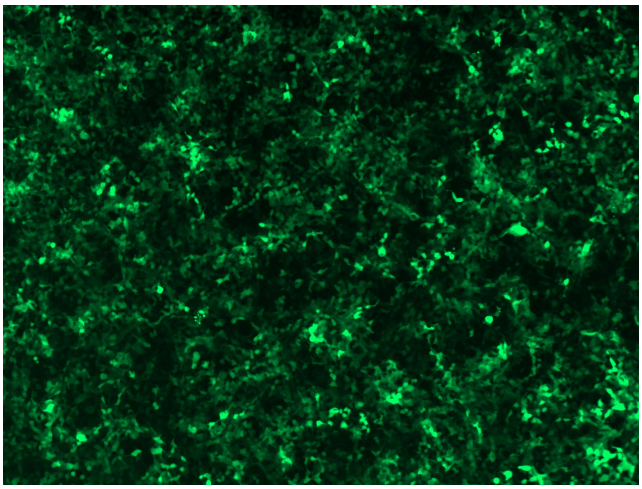
Product images:



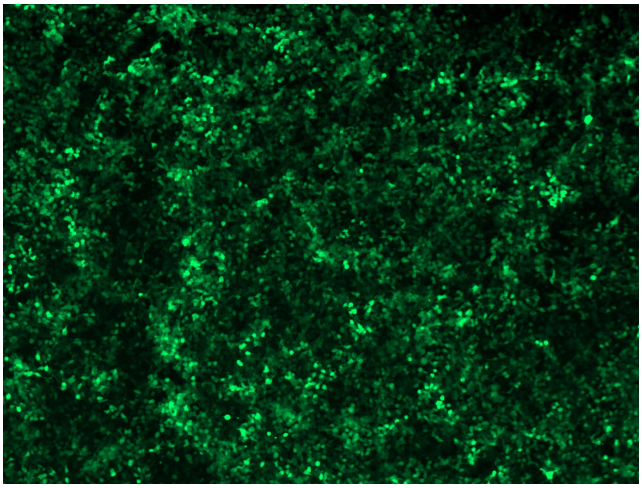
GFP signal was observed under microscope at 48 hours after transduction of TL311383A virus into HEK293 cells. TL311383A virus was prepared using lenti-shRNA TL311383A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL311383B virus into HEK293 cells. TL311383B virus was prepared using lenti-shRNA TL311383B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL311383C] virus into HEK293 cells. [TL311383C] virus was prepared using lenti-shRNA [TL311383C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL311383D] virus into HEK293 cells. [TL311383D] virus was prepared using lenti-shRNA [TL311383D] and [TR30037] packaging kit.