

Product datasheet for **TL312978V**

FKBP52 (FKBP4) Human shRNA Lentiviral Particle (Locus ID 2288)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	FKBP52 (FKBP4) Human shRNA Lentiviral Particle (Locus ID 2288)
Locus ID:	2288
Synonyms:	FKBP51; FKBP52; FKBP59; HBI; Hsp56; p52; PPlase
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	FKBP4 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	NM_002014 , NM_002014.1 , NM_002014.2 , NM_002014.3 , BC001786 , BC001786.1 , BC002887 , BC007924 , NM_002014.4
UniProt ID:	Q02790
Summary:	<p>The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene. [provided by RefSeq, Sep 2008]</p>
shRNA Design:	<p>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.</p>

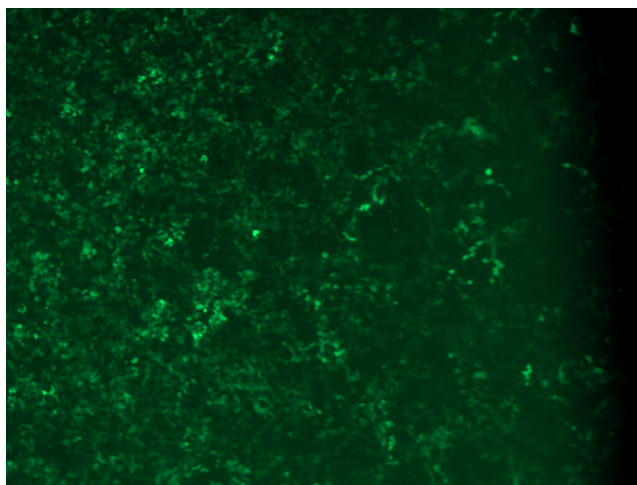


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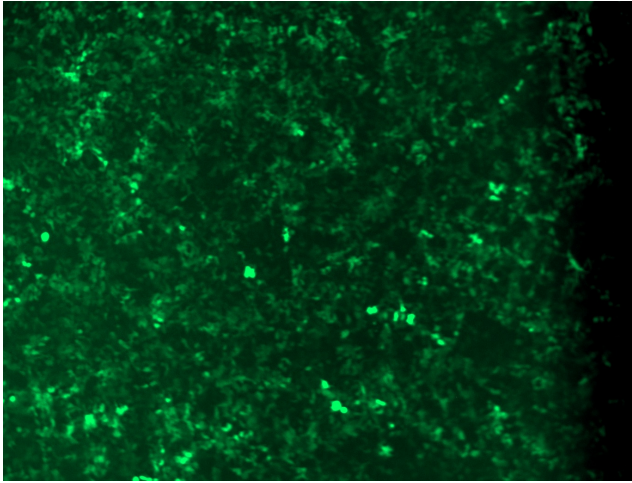
**Performance
Guaranteed:**

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.

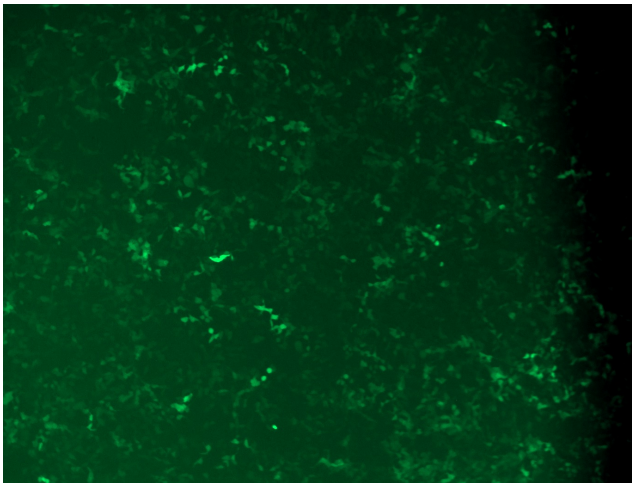
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

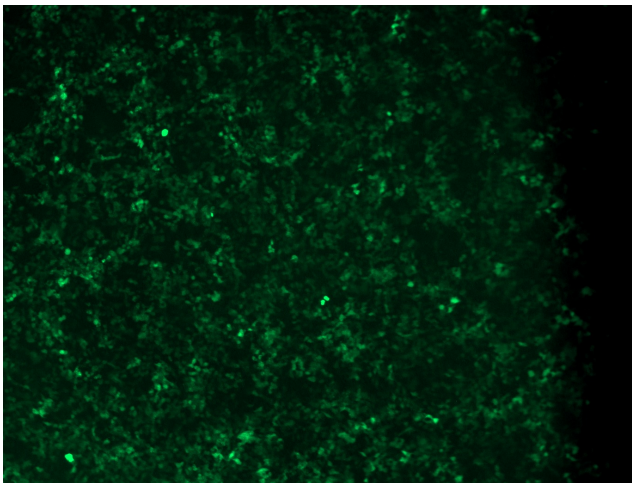
GFP signal was observed under microscope at 48 hours after transduction of TL312978A virus into HEK293 cells. TL312978A virus was prepared using lenti-shRNA TL312978A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL312978B virus into HEK293 cells. TL312978B virus was prepared using lenti-shRNA TL312978B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL312978C] virus into HEK293 cells. [TL312978C] virus was prepared using lenti-shRNA [TL312978C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL312978D] virus into HEK293 cells. [TL312978D] virus was prepared using lenti-shRNA [TL312978D] and [TR30037] packaging kit.