Product datasheet for TL320499

FAK (PTK2) Human shRNA Plasmid Kit (Locus ID 5747)

Product data:

Product Type:	shRNA Plasmids
Product Name:	FAK (PTK2) Human shRNA Plasmid Kit (Locus ID 5747)
Locus ID:	5747
Synonyms:	FADK; FADK 1; FAK; FAK1; FRNK; p125FAK; pp125FAK; PPP1R71
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PTK2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5747). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001199649, NM_001316342, NM_005607, NM_153831, NM_001352694, NM_001352695, NM_001352696, NM_001352697, NM_001352698, NM_001352699, NM_001352700, NM_001352701, NM_001352702, NM_001352703, NM_001352704, NM_001352705, NM_001352706, NM_001352707, NM_001352708, NM_001352709, NM_001352710, NM_001352711, NM_001352712, NM_001352713, NM_001352714, NM_001352715, NM_001352716, NM_001352717, NM_001352718, NM_001352719, NM_001352720, NM_001352721, NM_001352722, NM_001352723, NM_001352724, NM_001352725, NM_001352726, NM_001352727, NM_001352728, NM_001352729, NM_001352730, NM_001352731, NM_001352732, NM_001352733, NM_001352734, NM_001352735, NM_001352736, NM_001352737, NM_001352738, NM_001352739, NM_001352740, NM_001352741, NM_001352742, NM_001352743, NM_001352744, NM_001352745, NM_001352746, NM_001352747, NM_001352748, NM_001352749, NM_001352750, NM_001352751, NM_001352752, NR_148036, NR_148037, NR_148038, NR_148039, NM_153831.1, NM_153831.2, NM_153831.3, NM_005607.1, NM_005607.2, NM_005607.3, NM_005607.4, NM_001199649.1, BC015361, BC028733, BC035404, BC043202, NM_005607.5, NM_001199649.2, NM_153831.4
UniProt ID:	Q05397

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Summary: This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]

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.

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).