S1 Table. Sequences of paired sgRNAs designed for targeting ITGB1, ITGAv and ITGB4 genes.

sgRNA targeting **ITGB1** gene (exon **1**)	Guide A	top oligo (ZQ72)	5´- **CACCGATCAGTCCAATCCAGAAAAT**-3´
		bottom oligo (ZQ73)	5'- **AAACATTTTCTGGATTGGACTGATC**-3´
	Guide B	top oligo (ZQ74)	5'- **CACCGTGCTGTGTGTTTGCTCAAAC**–3'
		bottom oligo (ZQ75)	5'- **AAACGTTTGAGCAAACACACAGCAC**–3'
sgRNA targeting **ITGB1** gene (exon **3**)	Guide A	top oligo (ZQ58)	5´- **CACCGCTTTATATCTTTGGAGCCTC**-3´
		bottom oligo (ZQ59)	5'- **AAACGAGGCTCCAAAGATATAAAGC**-3´
	Guide B	top oligo (ZQ82)	5'- **CACCGGTGCTCAGTCTTACTAATAA**–3'
		bottom oligo (ZQ83)	5'- **AAACTTATTAGTAAGACTGAGCACC**–3'
sgRNA targeting **ITGB1** gene (exon **5**)	Guide A	top oligo (ZQ80)	5'- **CACCGAGTTCTGTTCACTTGTGCAA**– 3'
		bottom oligo (ZQ81)	5'- **AAACTTGCACAAGTGAACAGAACTC**– 3'
	Guide B	top oligo (ZQ82)	5'- **CACCGGTGCTCAGTCTTACTAATAA**– 3'
		bottom oligo (ZQ83)	5'- **AAACTTATTAGTAAGACTGAGCACC**– 3'
sgRNAs targeting **ITGAv** gene (exon **4**)	Guide A	top oligo (ZQ95)	5'- **CACCGCAGTTCTCCAATGGTACAAT**– 3'
		bottom oligo (ZQ96)	5'- **AAACATTGTACCATTGGAGAACTGC**– 3'
	Guide B	top oligo (ZQ97)	5'- **CACCGAAACAGGAGCGAGAGCCTGT**– 3'
		bottom oligo (ZQ98)	5'- **AAACACAGGCTCTCGCTCCTGTTTC**– 3'
sgRNAs targeting **ITGB4** gene (exon **6**)	Guide A	top oligo (CU1)	5' –**CACCGAAATCCAATAGTGTAGTCGC**- 3'
		bottom oligo (CU2)	5' -**AAACGCGACTACACTATTGGATTTC**- 3'
	Guide B	top oligo (CU3)	5'- **CACCGGCGTCCCGCAGACGGACATG**- 3'
		bottom oligo (CU4)	5'- **AAACCATGTCCGTCTGCGGGACGCC**- 3'

ZQ66		U6 forward primer for sequencing of sgRNA constructs	**5´- GAGGGCCTATTTCCCATGATTCC- 3´**

The complementary oligo pairs (blue sequences) were annealed before cloning into the vector. The corresponding cloning schemes for PX462-xxxx (sgRNA guide A expressing CRISPR construct) and PX462-xxxx (sgRNA guide B expressing CRISPR construct) are illustrated in **Fig. 1D and S3,4 Fig.** SgRNAs targeting ITGB1 exons 1 and 3 were not successful in generating gene knockout; therefore exon 5 targeting sgRNAs were used.