

## Supplementary Table 1

**Table 1** Chemical modification patterns and sequences of siRNAs

siRNA ID	Gene	Accession number	Targeting Position	Sense	Antisense	Conjugate
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2247	mG.mA.mG.G.mU.G.A.mG.mC.A.mC.mU.G#mC#mA	PmU.G.fC.A.G.fU.G.fC.fU.fC.A.fC.fC.U#fC#U#G#A#U#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2252	mG.mA.mG.mC.A.mC.mU.G.mC.A.A.mC.A#mA#mA	PmU.fU.fU.G.fU.fU.G.fC.A.G.fU.G.fC.fU#fC#A#fC#fC#U#C	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2253	mA.mG.mC.A.mC.mU.G.mC.A.A.mC.A.A#mA#mA	PmU.fU.fU.fU.G.fU.fU.G.fC.A.G.fU.G.fC#fU#fC#A#fC#fC#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2256	mA.mC.mU.G.mC.A.A.mC.A.A.mA.A.A#mG#mA	PmU.fC.fU.fU.U.fU.fU.G.fU.fU.G.fC.A.G#fU#G#fC#fU#fC#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2279	mU.mC.mU.mC.G.G.mA.mU.mC.mU.mC.C.A#mA#mA	PmU.fU.fU.G.G.mA.G.A.fU.fC.fC.G.A.mG#A#G#mA#A#A#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2280	mC.mU.mC.G.G.mA.mU.mC.mU.mC.C.A.A#mA#mA	PmU.fU.fU.fU.G.G.mA.G.A.fU.fC.fC.G.A#mG#A#G#mA#A#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2283	mG.mG.mA.mU.mC.mU.mC.C.A.A.A.mU.mU#mU#mA	PmU.A.A.A.fU.fU.fU.G.G.mA.G.A.fU.fC#fC#rG#A#G#A#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2284	mG.mA.mU.mC.mU.mC.mC.A.A.mA.mU.mU.mU#mA#mA	PmU.fU.A.A.mA.fU.fU.fU.G.G.mA.G.A.fU#fC#fC#G#A#mG#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2286	mU.mC.mU.mC.mC.A.A.mA.mU.mU.mU.A.A#mA#mA	PmU.fU.fU.fU.A.A.mA.fU.fU.fU.G.G.mA.G#A#fU#fC#fC#G#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2293	mA.mU.mU.mU.A.A.mA.A.G.mC.A.mC.A.A#mA#mA	PmU.fU.fU.G.fU.G.fC.fU.U.fU.fU.A.A.mA#fU#fU#G#G#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2294	mU.mU.mU.A.A.mA.A.G.mC.A.mC.A.A.A#mG#mA	PmU.fC.fU.fU.G.fU.G.fC.fU.U.fU.fU.A.A#mA#fU#fU#fU#G#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2295	mU.mU.A.A.mA.A.G.mC.A.mC.A.A.mG#mG#mA	PmU.fC.fC.U.fU.G.fU.G.fC.U.fU.fU.A.A#mA#fU#fU#fU#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2304	mC.mA.A.mG.G.A.mA.mU.G.A.mU.mU.G#mU#mA	PmU.A.fC.A.A.fU.fC.A.U.fU.fC.fC.U.fU#G#fU#G#fC#fU#U	Teg-cholesterol

siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2313	mA.mU.mU.G.mU.A.mC.mC.A.mC.A.mC.A#mA#mA	PmU.fU.fU.G.fU.G.fU.G.fU.A.fC.A.A#U#C#A#U#U#C	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2318	mA.mC.mC.A.mC.A.mC.A.A.mA.G.mU.A#mA#mA	PmU.fU.fU.A.fC.fU.U.fU.G.fU.G.fU.G.fU.G#fU#A#C#A#A#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2321	mA.mC.A.mC.A.A.mA.G.mU.A.A.mU.G#mU#mA	PmU.A.fC.A.fU.fU.A.fC.fU.U.fU.G.fU.G#U#G#G#U#A#C	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2322	mC.mA.mC.A.A.mA.G.mU.A.A.mU.G.mU#mA#mA	PmU.fU.A.fC.A.fU.fU.A.fC.fU.U.fU.G.fU.G#G#fU#G#G#fU#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2324	mC.mA.A.mA.G.mU.A.A.mU.G.mU.A.A#mA#mA	PmU.fU.fU.fU.A.fC.A.fU.fU.A.fC.fU.U.fU.G#G#fU#G#fU#G#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2326	mA.mA.mG.mU.A.A.mU.G.mU.A.A.mA.A#mC#mA	PmU.G.fU.fU.U.fU.A.fC.A.fU.fU.A.fC.fU#fU#G#fU#G#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2332	mU.mG.mU.A.A.mA.A.mC.A.mU.mU.A.A#mA#mA	PmU.fU.fU.fU.A.A.fU.G.fU.fU.U.fU.A.fC#A#fU#fU#A#C#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2333	mG.mU.A.A.mA.A.mC.A.mU.mU.A.A.mA#mG#mA	PmU.fC.fU.U.fU.A.A.fU.G.fU.U.fU.fU.A.fC#A#fU#fU#A#C	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2339	mC.mA.mU.mU.A.A.mA.G.G.mA.mC.mU.mC#mA#mA	PmU.fU.G.A.G.fU.fC.fC.U.fU.fU.A.A.fU#G#fU#fU#fU#fU#A	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2343	mA.mA.mA.G.G.mA.mC.mU.mC.A.mU.mU.A#mA#mA	PmU.fU.fU.A.A.fU.G.A.mG.fU.fC.fC.U.fU#fU#A#A#fU#G#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2351	mC.mA.mU.mU.A.A.mA.A.A.mG.mU.A.A#mC#mA	PmU.G.fU.fU.A.fC.fU.U.fU.fU.fU.A.A.fU#G#A#mG#fU#fC#C	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2353	mU.mU.A.A.mA.A.A.mG.mU.A.A.mC.A#mG#mA	PmU.fC.fU.G.fU.fU.A.fC.fU.U.fU.fU.fU.A.A#fU#G#A#mG#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2362	mA.mA.mC.A.G.mU.mU.G.mU.mC.mU.mC.A#mU#mA	PmU.A.fU.G.A.mG.A.fC.A.A.fC.fU.G.fU#fU#A#C#fU#fU#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2471	mU.mC.A.mU.mC.A.mU.mC.A.mU.A.G.mC#mU#mA	PmU.A.G.fC.fU.A.fU.G.A.fU.G.A.fU.G#A#fU#G#A#fU#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2474	mU.mC.A.mU.mC.A.mU.A.G.mC.mU.A.mU#mC#mA	PmU.G.A.fU.A.G.fC.fU.A.fU.G.A.fU.G#A#fU#G#A#fU#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2477	mU.mC.A.mU.A.G.mC.mU.A.mU.mC.A.mU#mC#mA	PmU.G.A.fU.G.A.fU.A.G.fC.fU.A.fU.G#A#fU#G#A#fU#G	Teg-cholesterol



siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2588	mA.mC.A.A.mU.mC.A.mU.A.A.mC.A.A#mU#mA	PmU.A.fU.fU.G.fU.fU.A.fU.G.A.fU.fU.G#fU#fC#fU#fU#G#G	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2590	mA.mA.mU.mC.A.mU.A.A.mC.A.A.mU.A.A#mA#mA	PmU.fU.fU.A.fU.fU.G.fU.fU.A.fU.G.A.fU#fU#G#fU#fC#fU#U	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2283	fG#mG#fA.mU.fC.mU.fC.mC.fA.mA.fA.mU.fU#mU#fA	PmU#fA#mA.fA.mU.fU.mU.fG.mG.fA.mG.fA.mU#fC#mC#fG#mA#fG#mA#fG	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2519	fU#mA#fG.mC.fU.mA.fC.mC.fA.mU.fU.mU.fA#mU#fA	PmU#fA#mU.fA.mA.fA.mU.fG.mG.fU.mA.fG.mC.fU#mA#fU#mG#fA#mU#fG	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2318	fA#mC#fC.mA.fC.mA.fC.mA.fA.mA.fG.mU.fA#mA#fA	PmU#fU#mU.fA.mC.fU.mU.fU.mG.fU.mG.fU.mG#mU#fA#mC#fA#mA#fU	Teg-cholesterol
siRNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2585	fA#mA#fG.mA.fC.mA.fA.mU.fC.mA.fU.mA.fA#mC#fA	PmU#fG#mU.fU.mA.fU.mG.fA.mU.fU.mG.fU.mC.fU#mU#fG#mG#fC#mU#fC	Teg-cholesterol
siRNA <sup>PPIB</sup>	PPIB	NM-009693.2	437	fC#mA#fA.mA.fU.mU.fC.mC.fA.mU.fC.mG.fU#mG#fA	PmU#fC#mA.fC.mG.fA.mU.fG.mG.fA.mA.fU.mU.fU#mG#fC#mU#fG#mU#fU	Teg-cholesterol
siRNA <sup>NTC</sup>	NA	NA	NA	fU#mG#fA.mC.fA.mA.fA.mU.fA.mC.fG.mA.fU#mU#fA	PmU#fA#mA.fU.mC.fG.mUfA.mU.fU.mU.fG.mU.fC#mA#fA#mU#fC#mA#fU	Teg-cholesterol
PNA <sup>sFLT1</sup>	sFLT1-i13	NM_001159920	2283	C*T*C*T*C*G*A*T*C*T*C*C*A*A*A*T*T*A		CY3 -(OO)-
PNA <sup>sFLT1</sup>	sFLT1-e15a	NM_001160030	2519	C*A*T*C*A*T*A*G*C*T*A*C*C*A*T*T*A*T*A		CY3 -(OO)-

Chemical modifications are designated as follows. "." – phosphodiester bond, "#" – phosphorothioate bond, "\*" – peptide bond, "m" – 2'-OMethyl, "f" – 2'-Fluoro, "P" – 5' Phosphate, "teg-cholesterol" – tetraethylene glycol (teg)-Cholesterol, (OO) – O-linker (PNA Bio)