

Supplementary table S1: UV induced crosslinking of SmB peptide and sm site oligonucleotide. List of peptide-RNA crosslinked identified with and without DTT

Peptide sequence	RNA fragment	Theoretical[Da]			Observed[Da]			
		peptide MW	RNA MW	cross link MW	m/z	z	crosslink MW	$\Delta m$
CILQDGR	U	803.3960	324.0359	1127.4318	564.7252	2	1127.4348	
CILQDGR	U-H <sub>2</sub> O	803.3960	306.0253	1109.4212	555.7192	2	1109.4228	
CILQDGR	AAU	803.3960	982.1409	1785.5368	893.7789	2	1785.5422	
CILQDGR	AAU-H <sub>2</sub> O	803.3960	964.1303	1767.5263	884.7714	2	1767.5272	
CILQDGR	AAU+152	803.3960	1134.1374	1937.5334	646.851	3	1937.5296	151.9928
CILQDGR	U+152	803.3960	476.0324	1279.4284	640.7202	2	1279.4248	151.9968
CILQDGR	UU	803.3960	630.0612	1433.4572	717.735	2	1433.4544	
CILQDGR	UU+152	803.3960	782.0577	1585.4537	793.7314	2	1585.4472	151.9954
CILQDGR	AU+152	803.3960	805.0850	1608.4809	805.2468	2	1608.478	151.9966
M(Oxidation)LQHIDYR	U	1090.5230	324.0359	1414.5588	708.2856	2	1414.5556	
M(Oxidation)LQHIDYR	UU	1090.5230	630.0612	1720.5841	574.5341	3	1720.5789	
M(Oxidation)LQHIDYR	AU	1090.5230	653.0884	1743.6114	582.2101	3	1743.6069	
MLQHIDYR	U-H <sub>2</sub> O	1074.5281	306.0253	1380.5533	691.2856	2	1380.5556	
MLQHIDYR	U	1074.5281	324.0359	1398.5639	700.2912	2	1398.5668	
MLQHIDYR	UU	1074.5281	630.0612	1704.5892	853.3029	2	1704.5902	
MLQHIDYR	GU-H <sub>2</sub> O	1074.5281	651.0727	1725.6007	863.8099	2	1725.6042	