Supplementary file 4

	³ H Hyp assay	IVTT MSMS Hydroxylation assay		Peptide MS Hydroxylation assay	
Substrate	Replicate #	Target Residue	Replicate #	Peptide Name	Replicate #
ACACB		P343	2	NT	-
	2	P450	2	ACACB/438-462	1
				ACACB/445-462	1
ACTO		P307	2	ACTB/295-319	3
ACTB	2	P322	2	ACTB/310-334	3
ADRB2	1	P382	1	ADRB2/370-394	3
		P395	1	ADRB2/383-407	3
AKT1		D12F	2	AKT1/113-137	3
		P125	2	AKT1/115-134	3
		P313, P318	2	AKT1/301-325	3
AKTI				AKT1/307-328	3
				AKT1/311-330	3
		P423	2	NT	-
ATF4	2	P156, P162, P164, P167	1	ATF4/144-168	3
	2	P174	1	ATF4/157-182	3
CENPN/iso1	2	P311	1	CENPN/299-323_iso1	1
				CENPN/299-323_iso3	1
				CENPN/308-317_iso3	1
CEP192	2	P2313	1	CEP192/2303-2326	3
			1	CEP192/2306-2317	3
EEF2K	2	P98	2	EEF2K/86-110	3
EPOR	2	P443, P450	2	EPOR/434-458	3
				EPOR/441-455	3
FLNA	2	P2317, P2324	1	FLNA/P2310-2333	3
FOXO3	2	P426, P437	2	FOXO3/414-438	3
				FOXO3/425-448	3
IKBKB	2	P191	1	IKBKB/180-204	3
MAPK6	2	P25	1	MAPK6/13-37	1
NDRG3	2	P294	2	NDRG3/282-306	3
PDE4D	2	P19	-	PDE4D/17-41	3
		P381	1	PDE4D/370-394	3
		P419	1	PDE4D/407-431	3
РКМ	1	P403, P408	1	PKM/391-415	3
				PKM/396-422	3
PPP2R2A	2	P319	1	PPP2R2A/308-332	1
		84465		PPP2R2A/311-329	1
POLR2A	NT	P1465	NT	POLR2A/1456-1476	3
6001/2	2	P18, P144, P160	1	SPRY2/6-30	3
SPRY2				SPRY2/132-156	3
TELO2	1	0274	1	SPRY2/148-172	3
		P374	1	TELO2/362-386	3
TUDA		P419, P422	- 2	TELO2/409-433	3
THRA TP53	2	P160, P162	2	THRA/149-173	+
		P142		NT	-
		P359	1	TP53/347-371	1
TRPA1	1	P394	1	TRPA1/382-406	3
				TRPA1/386-405	3