

Supplemental Table S5. Information of 3xFLAG-tagged UAS-cDNA plasmids

P number (for UAS-cDNA-3FLAG or UAS-3FLAG-cDNA)	Plasmid (UAS-cDNA-3FLAG or UAS-3FLAG-cDNA)	Vector	Symbol of fly gene	DGRC Gold Collection clone ID	Number of amino acid residues of protein encoded by 3xFLAG-tagged cDNA	Molecular weight of protein encoded by 3xFLAG-tagged cDNA (kDa)	Primer	Primer sequence (5'-3')
P1-3FLAG	pBS-UAS- <i>twr</i> -3FLAG	pBS SK-	<i>twr</i>	GM04682	207	23.7	twr-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAGATGGGATCGCTCTTA
							twr-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CTCCCGATGCAGCAGCAC
P2-3FLAG	pBS-UAS-Neos-3FLAG	pBS SK-	<i>Neos</i>	HL05936	393	43.9	Neos-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAGACTACCAATACTTAGTAGTA
							Neos-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC TAAACTCGGCTAAAATCTGTC
P3-3FLAG	pBS-UAS- <i>Sec13</i> -3FLAG	pBS SK-	<i>Sec13</i>	LD03471	378	42.2	Sec13-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTGAGCCAGCCCCGAAATA
							Sec13-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC GTTGGAGAGCTGCGAGTT
P4-3FLAG	pBS-UAS- <i>RnrL</i> -3FLAG	pBS SK-	<i>RnrL</i>	LD06546	834	94.7	RnrL-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAAAAGCATTACATAGACT
							RnrL-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC AGAACCGCAGGACAT
P5-3FLAG	pBS-UAS- <i>Rfc38</i> -3FLAG	pBS SK-	<i>Rfc38</i>	LD06837	378	43.5	Rfc38-3FLAG-F	CACGATATCGATTACAAGGATGACGATGACAA GTAAACGATTTACACGCTTTAGC
							Rfc38-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC AAAATCATCCGTCATGTCC
P6-3FLAG	pBS-dUTPase-3FLAG	pBS SK-	<i>dUTPase</i>	LD08534	210	22.7	dUTPase-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAAACGAGGAACTATTGCCGATTCC
							dUTPase-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CGTAGCAACAGGAGCC
P394-3FLAG	pFLC-UAS- <i>TfIIA-S</i> -3FLAG	pFLC-I	<i>TfIIA-S</i>	FI01012	128	14.9	TfIIA-S-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTGAACACCACCGAC
							TfIIA-S-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAATC AAACTCGCCGCTCTT

P395-3FLAG	pFLC-UAS-phr6-4-3FLAG	pFLC-I	<i>phr6-4</i>	FI01404	562	65.2	phr6-4-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAAAACCTAAAATTTGTTCCGC
							phr6-4-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC ACGTTTTTCGCTTAGGGGCACT
P396-3FLAG	pFLC-UAS-CG9527-3FLAG	pFLC-I	<i>CG9527</i>	FI01419	725	82.0	CG9527-3FLAG-F	CATGACATCGACTATAAAGACGACGATGACAA GTAGACTCACTGTAAAATCCCA
							CG9527-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CAATTTGGCGCGCTTAAGGTAATC
P397-3FLAG	pFLC-UAS-CG34195-3FLAG	pFLC-I	<i>CG34195</i>	FI01437	305	35.9	CG34195-3FLAG-F	CATGACATCGACTATAAAGATGACGACGACAA ATGACCAGAGGTTAATAATCAT
							CG34195-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CAGGTTTTCTCCTAAACTTGCC
P398-3FLAG	pFLC-UAS-Irbp-3FLAG	pFLC-I	<i>Irbp</i>	FI01513	653	75.2	Irbp-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAATTAAAATATCCATACTTTGAGT
							Irbp-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CTTATGTAGTTCCTCGATTTTGGCG
3FLAG-P399	pFLCRH-3FLAG-Nhe3	pFLC-I	<i>Nhe3</i>	FI01553	733	81.2	3FLAG-Nhe3-F	TGCTGGCGGAGCAGCATGGACTACAAAGATC ATGATGGTGACTACAAGGACCACGACATT
							3FLAG-Nhe3-R	AAATCCGACTATGAGCAGCTTGTCATCGTCAT CCTTGTAATCAATGTCGTGGTCCTTGTA
P1761-3FLAG	pOT2-UAS-Nuak1-3FLAG	pOT2	<i>Nuak1</i>	FI03914	1202	139.5	CG43143-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAGTGAGACACGCCATTC
							CG43143-3FLAG-R	ATCTTTGTAGTCACCGTCGTGATCTTTGTAGT CCTGATCTAGGTATTTACTCTTTATTC
P1762-3FLAG	pOT2-UAS-Cpn-3FLAG	pOT2	<i>Cpn</i>	FI03985	886	87.3	Cpn-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAGCTCAAGTTTAAAGCCTGGAT
							Cpn-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC ATTGGATTTGGGAGGAC
P1763-3FLAG	pOT2-UAS-Slu7-3FLAG	pOT2	<i>Slu7</i>	FI05206	596	68.7	Slu7-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAGGCAATAAAGTACAACCTGAT
							Slu7-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC CATAAATTGCAGCATGGGATCTTC
P1764-3FLAG	pOT2-UAS-CG8312-3FLAG	pOT2	<i>CG8312</i>	FI05246	888	98.0	CG8312-3FLAG-F	CATGACATCGATTACAAAGATGACGATGACAA GTGAGCGAAATGCTTTAAT
							CG8312-3FLAG-R	GTCCTTATAATCTCCATCATGGTCTTTGTAGT CGACAGCGGTGCCCGGAGCCTTAC

P1765-3FLAG	pOT2-UAS-CG33116-3FLAG	pOT2	CG33116	FI05338	449	52.7	CG33116-3FLAG-F	CATGACATCGATTATAAAGATGATGACGACAA GTAAGGCATCGGATTGCGCTATTTTG
							CG33116-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC TATATCTTTCTTCAATGGCTC
P1766-3FLAG	pOT2-UAS-CG6048-3FLAG	pOT2	CG6048	FI06405	384	41.0	CG6048-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAATAATTTGAATAAAAACCTAT
							CG6048-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC GAACTGCGTAGCCATTAGTCTC
P5131-3FLAG	pOTB7D-UAS-CG15629-3FLAG	pOTB7_DraIII	CG15629	MIP05442	347	39.5	CG15629-3FLAG-F	CACGACATAGACTATAAAGACGACGACGACAA GTAAACACACAATAGGAATCATC
							CG15629-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC ACCAGCGGCGACGCGCCCTCGTCCCTGA
P5133-3FLAG	pOTB7D-UAS-Ass-3FLAG	pOTB7_DraIII	Ass	MIP05494	441	49.3	Ass-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTGAACGAAAAAGATAGAAT
							Ass-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC GTTTTCTTCGTTGGCAC
P5152-3FLAG	pOTB7D-UAS-CG8534-3FLAG	pOTB7_DraIII	CG8534	MIP05430	287	33.7	CG8534-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTGAGGCCGCAAATCCTTTGAATGACG
							CG8534-3FLAG-R	ATCTTTATAATCACCATCGTGGTCTTTGTAATC ATCGGATTTCAACGCGCTCTTCTG
P5160-3FLAG	pOTB7D-UAS-LysD-3FLAG	pOTB7_DraIII	LysD	MIP14090	162	18.3	LysD-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAAACTGATTTTGACCCC
							LysD-3FLAG-R	ATCTTTATAATCACCATCATGATCTTTGTAGTC GAAGCAGTCATCGATGGACGGC
P5167-3FLAG	pOTB7D-UAS-osm-6-3FLAG	pOTB7_DraIII	osm-6	MIP14443	432	50.0	osm-6-3FLAG-F	CACGATATTGATTACAAGGATGACGATGACAA GTAGAACGCTCCGATTGCTACATTCC
							osm-6-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC GTCCTCCGCATAAGGTCTGTA
P5170-3FLAG	pOTB7D-UAS-CG32154-3FLAG	pOTB7_DraIII	l(3)72Dr	MIP26173	367	42.2	CG32154-3FLAG-F	CATGACATCGATTACAAGGATGACGATGACAA GTAAGTATTGTGATACACAAGAAT
							CG32154-3FLAG-R	ATCTTTATAATCACCGTCATGGTCTTTGTAGTC AGATGAGCGAAGCTCCTCAGAATC