Table 1. Constructs and modular components of the mGRASPi system

Catalog	Constructs	Epitope tag				Genetic switch dependency	co-expressing component	Description	Identifier (addgene)
		V	H	M	O				
pre-mGRASPi	pre-mGRASPi-V5	■				-	-		#257906
	pre-mGRASPi-HA		■			-	-		#257907
	pre-mGRASPi-Myc			■		-	-		#257908
	pre-mGRASPi-Ollas				■	-	-		#257909
	JxON-pre-mGRASPi-V5	■				Cre	-	for ON-expression	#257910
	JxON-pre-mGRASPi-HA		■				-		#257911
	JxON-pre-mGRASPi-Myc			■			-		#257912
	JxON-pre-mGRASPi-Ollas				■		-		#257913
	JxOFF-pre-mGRASPi-V5	■					-	for OFF-expression	#257914
	JxOFF-pre-mGRASPi-HA		■				-		#257915
	JxOFF-pre-mGRASPi-Myc			■			-		#257916
	JxOFF-pre-mGRASPi-Ollas				■		-		#257917
	fDIO-rev-pre-mGRASPi-V5	■				flp	-	for ON-expression	#257918
	TRE-pre-mGRASPi-Ollas				■	tTA/rtTA	-	for ON/OFF-expression	#257919
	pre-mGRASPi-Ollas-2A-mTagBFP2				■	-	mTagBFP	for direct visualization	#257920
	pre-mGRASPi-V5-2A-iCre	■				-	Cre	for selective labeling of post-synaptic neurons via anterograde trans-synaptic Cre delivery for co-expression of Cre-dependent effectors	#257921
	pre-mGRASPi-HA-2A-iCre		■			-			#257922
	pre-mGRASPi-Myc-2A-iCre			■		-			#257923
	pre-mGRASPi-Ollas-2A-iCre				■	-			#257924
	pre-mGRASPi-V5-HA-2A-iCre	■	■			-			#257925
	pre-mGRASPi-V5-Myc-2A-iCre	■		■		-			#257926
	pre-mGRASPi-V5-Ollas-2A-iCre	■			■	-			#257927
	pre-mGRASPi-HA-Myc-2A-iCre		■	■		-			#257928
	pre-mGRASPi-HA-Ollas-2A-iCre		■		■	-			#257929
	pre-mGRASPi-Myc-Ollas-2A-iCre			■	■	-			#257930
	pre-mGRASPi-V5-HA-Myc-2A-iCre	■	■	■		-			#257931
	pre-mGRASPi-V5-Myc-Ollas-2A-iCre	■	■		■	-			#257932
	pre-mGRASPi-V5-HA -Ollas-2A-iCre	■	■		■	-			#257933
	pre-mGRASPi-HA-Myc-Ollas-2A-iCre		■	■	■	-			#257934
	pre-mGRASPi-V5-HA-Myc-Ollas-2A-iCre	■	■	■	■	-			#257935
Post-mGRASP	post-mGRASP-2A-dTomato	-				-	dTomato	for direct visualization	#34912
	Jx-rev-post-mGRASP-2A-dTomato	-				Cre		for ON-expression	#51906
	fDIO-rev-post-mGRASP-2A-dTomato	-				flp			#257936
	TRE-post-mGRASP-2A-dTomato	-				tTA/rtTA		for ON/OFF-expression	#258014
Others	Flpo	-				-	-		

*All constructs are based on the pAAV-CAG backbone (only except pAAV-TRE-pre-mGRASPi-Ollas and pAAV-TRE-post-mGRASP-2A-dTomato)