

**AAV-Based GRAB Sensors**

*Distributed on behalf of Dr. Yulong Li*

Version	Plasmid	status	deposit to Addgene
<b>GRAB-DA dopamine</b>			
DA1m	pAAV-hSyn-DA1m	published	Y
	pAAV-hSyn-DIO-DA1m	published	
DA1h	pAAV-hSyn-DA1h	published	Y
	pAAV-hSyn-DIO-DA1h	published	
	pAAV-hSyn-DA1hmut	published	Y
DA2m	pAAV-hSyn-DA2m	published	Y
	pAAV-hSyn-DIO-DA2m	published	
	pAAV-GfaABC1D-DA2m	published	
DA2h	pAAV-hSyn-DA2h	published	Y
	pAAV-hSyn-DIO-DA2h	published	
DA3m	pAAV-hSyn-DA3m		
	pAAV-hSyn-DIO-DA3m		
	pAAV-GfaABC1D-DA3m		
DA3h	pAAV-hSyn-DA3h		
	pAAV-GfaABC1D-DA3h		
rDA1m	pAAV-hSyn-rDA1m	published	Y
	pAAV-hSyn-DIO-rDA1m	published	
rDA1h	pAAV-hSyn-rDA1h	published	Y
	pAAV-hSyn-DIO-rDA1h	published	
rDAmut	pAAV-hSyn-rDA-mut	published	Y
	pAAV-hSyn-DIO-rDA-mut	published	
<b>GRAB-5HT serotonin</b>			
5HT1.0	pAAV-hSyn-5HT1.0	published	Y
	pAAV-hSyn-DIO-5HT1.0	published	
	pAAV-CAG-5HT1.0	published	
5HT3.0	pAAV-hSyn-5HT3.0		
	pAAV-EF1a-DIO-5HT3.0		
5HT2m	pAAV-hSyn-5HT2m		
	pAAV-EF1a-DIO-5HT2m		
5HT2h	pAAV-hSyn-5HT2h		
	pAAV-hSyn-DIO-5HT2h		
	pAAV-CAG-5HT2h		
5HT2l	pAAV-hSyn-5HT2l		
5HTmut	pAAV-hSyn-5HTmut		
r5HT1.0	pAAV-hSyn-r5HT1.0		
r5HT2.0	pAAV-hSyn-r5HT2.0		
r5HTmut	pAAV-hSyn-r5HTmut		
5HT3.0mut	pAAV-hSyn-5HT3.0mut		

Version	Plasmid	status	deposit to Addgene
<b>GRAB-NE norepinephrine</b>			
NE1m	pAAV-hSyn-NE1m	published	Y
NE1h	pAAV-hSyn-NE1h	published	Y
NE2m	pAAV-hSyn-NE2m pAAV-hSyn-DIO-NE2m pAAV-hSyn-mRuby3-NE2m pAAV-GfaABC1D-NE2m		
NE2h	pAAV-hSyn-NE2h pAAV-hSyn-DIO-NE2h pAAV-hSyn-mRuby3-NE2h pAAV-GfaABC1D-NE2h		
NE2l	pAAV-hSyn-NE2l		
NEmut	pAAV-hSyn-NEmut pAAV-hSyn-NE2mmut	published	Y
rNE1.1	pAAV-hSyn-rNE1.1 AAV9-EFS-DIO-rNE1.1		
AC-NE1.0	pAAV-hSyn-AC-NE1.0		
AC-NE1h	pAAV-hSyn-AC-NE1h		
AC-UK1.0	pAAV-hSyn-AC-UK1.0		
<b>GRAB-Ado adenosine</b>			
Ado1.0	pAAV-hSyn-Ado1.0 pAAV-GfaABC1D-Ado1.0 pAAV-EFS-DIO-Ado1.0 pAAV-hSyn-Ado1.0-mScarlet	published published published published	Y Y Y Y
Ado1.0med	pAAV-hSyn-Ado1.0med pAAV-GfaABC1D-Ado1.0med	bioRxiv bioRxiv	Y Y
Ado1.0mut	pAAV-hSyn-Ado1.0mut pAAV-GfaABC1D-Ado1.0mut	published published	Y Y
rAdo1.3	pAAV-hSyn-rAdo1.3		
rAdo1.5	pAAV-CAG-rAdo1.5		
<b>GRAB-ATP ATP</b>			
ATP1.0	pAAV-hSyn-ATP1.0 pAAV-GfaABC1D-ATP1.0 pAAV-EFS-DIO-ATP1.0	bioRxiv bioRxiv bioRxiv	Y Y Y
ATP1.0-L	pAAV-hSyn-ATP1.0-L pAAV-GfaABC1D-ATP1.0-L		
ATP1.0mut	pAAV-hSyn-ATP1.0mut pAAV-GfaABC1D-ATP1.0mut	bioRxiv bioRxiv	Y Y
cATP1.0	pAAV-hSyn-cATP1.0 pAAV-GfaABC1D-cATP1.0 pAAV-hSyn-cATP1.0-TES-WPRE		
rATP0.5	pAAV-hSyn-rATP0.5 pAAV-GfaABC1D-rATP0.5		

Version	Plasmid	status	deposit to Addgene
<b>GRAB-ACh acetylcholine</b>			
ACh3.0	pAAV-hSyn-ACh3.0	published	Y
	pAAV-hSyn-DIO-ACh3.0	published	Y
ACh3.0mut	pAAV-hSyn-ACh3.0mut	published	
ACh3.8	pAAV-hSyn-ACh3.8		
rACh1.7	pAAV-hSyn-rACh1.7		
<b>GRAB-OXT oxytocin</b>			
OXT1.0	pAAV-hSyn-OXT1.0		
	pAAV-EFS-DIO-OXT1.0		
OXTmut	pAAV-hSyn-OXTmut		
	pAAV-EFS-DIO-OXTmut		
OXT1.5	pAAV-hSyn-OXT1.5		
OXT1.7	pAAV-hSyn-OXT1.7		
<b>GRAB-SST somatostatin</b>			
SST2.0	pAAV-hSyn-SST2.0		
	pAAV-hSyn-DIO-SST2.0		
<b>GRAB-CCK cholecystokinin</b>			
CCK2.0	pAAV-hSyn-CCK2.0		
	pAAV-hSyn-DIO-CCK2.0		
CCKmut	pAAV-hSyn-CCKmut		
CCK2.3	pAAV-hSyn-CCK2.3		
<b>GRAB-NPY neuropeptide Y</b>			
NPY1.0	pAAV-hSyn-NPY1.0		
	pAAV-EF1a-DIO-NPY1.0		
<b>GRAB-AVP arginine vasopressin</b>			
AVP2.0	pAAV-hSyn-AVP2.0		
	pAAV-hSyn-DIO-AVP2.0		
<b>GRAB-VIP vasoactive intestinal polypeptide</b>			
VIP1.0	pAAV-hSyn-VIP1.0		
	pAAV-hSyn-DIO-VIP1.0		
<b>GRAB-NTS neurotensin</b>			
NTS1.0	pAAV-hSyn-NTS1.0		
	pAAV-hSyn-DIO-NTS1.0		
<b>GRAB-HA histamine</b>			
HA1h	pAAV-hSyn-HA1h		
HA1m	pAAV-hSyn-HA1m		
HA1mut	pAAV-hSyn-HA1mut		