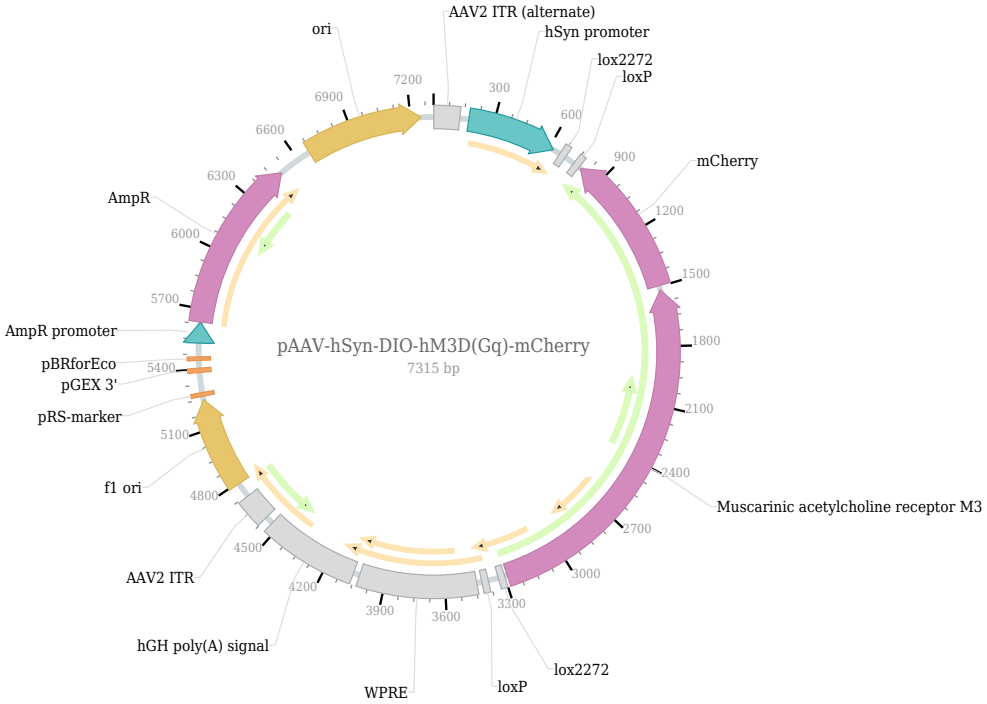
pAAV-hSyn-DIO-hM3D(Gq)-mCherry

Vector ID	V017491
Antibiotic Resistance	Ampicillin
Length	7315 bp
Vector Type	AAV

Product Information

Source/Author	Bryan Roth
Selection Marker	mCherry
Copy Number	Low copy number
Promoter	hSyn
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	Double floxed Gq-coupled hM3D DREADD fused with mCherry under the control of human synapsin promoter. When the AAV-hM3Dq-mCherry was stereotaxically injected into the ARC of AgRP-Ires-cre mice, mCherry was detected exclusively in the ARC, in a pattern consistent with AgRP neurons. Importantly, no expression was detected following injection into non–Cre-expressing mice. Furthermore, mCherry was restricted to AgRP–Cre-expressing cells.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.