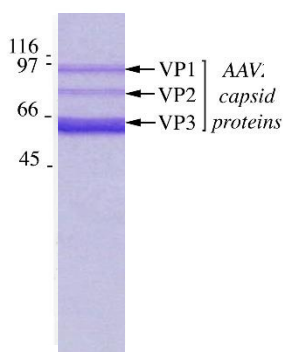




Code	MJFF-GD1006 (GeneDetect® rAVE™ Gene Delivery Reagent)
Vector	scAAV2/5-CBh-hu WT αSyn-WPRE3-enSV40pA
Vector description	scAAV2/5 Expression Vector. The CBh promoter consists of a hybrid form of the chicken β-actin promoter which drives robust expression. The Woodchuck post-transcriptional regulatory element (WPRE3) and the presence of a polyadenylation sequence (enSV40pA) ensures high transcription following transduction.
Lot Number	43411
Quantity	0.2 ml
Purity	Purified and concentrated by modified Iodixanol/cation exchange/Q-Sepharose.
Titer/concentration	0.3 x 10 ¹³ <u>genomic</u> particles/ml (vg/ml)
Presentation	Liquid in phosphate buffered saline (PBS) containing 1mM MgCl ₂
Storage & stability	Upon receipt, briefly spin contents of vial to collect sample, aliquot on ice under sterile conditions and store: 4°C for short term (<1 month), -20 °C or -80°C for long term. <u>Avoid repeated freeze-thaw cycles.</u>
Quality control	10μl was analyzed by SDS-PAGE to verify purity.



Note: GeneDetect® and rAVE™ are trademarks of GeneDetect.com Limited.

Handling

Always wear laboratory gloves, protective glasses and a suitable protective laboratory coat when using rAVE™ reagents. Recent NIH guidelines state that "adeno-associated virus (AAV) types 1 through 4, and recombinant AAV constructs, in which the transgene does not encode either a potentially tumorigenic gene product or a toxin molecule and are produced in the absence of a helper virus" can in most cases be handled at biosafety level 1 (BL1). You should follow the guidelines set by your Institutional biosafety committee for the handling of adeno-associated virus.

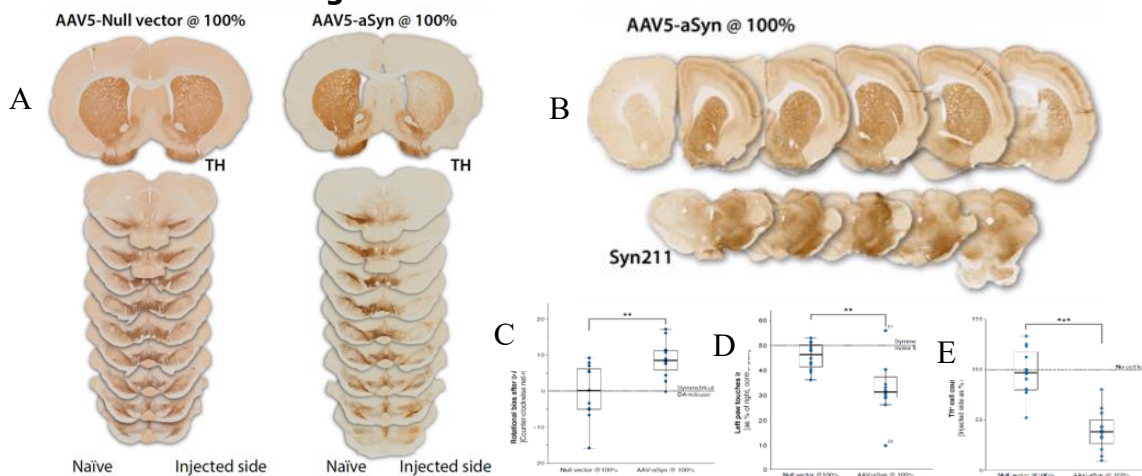
Disposal

rAVE™ reagents are susceptible to 5% phenol, 10% bleach, 10% Wescodyne or Virkon. We recommend using a fresh solution of 10% bleach for 30 minutes for decontamination.

Applications

For *in vitro* applications, mix 2µl rAVE™ sample with 200µl pre-warmed culture media and apply per well to cells of 60 - 80% confluency (24well plate). Allow at least three days for viral integration and gene expression before analysis. For *in vivo* applications, dose should be determined by end user.

MJFF In Vivo Testing



Injection paradigm for wild type Sprague rats injected with 3 µL doses confirmed by ddPCR and qPCR. Rats were sacrificed 6 weeks post injection. Representative images of TH (**A**) and aSyn (**B**) stained sections. 100% is the undiluted virus, ddPCR-matched at 2.4E12. (**C**) TH positive cell counts in the SNpc. (**D**) Left paw touches in cylinder. (**E**) Rotational bias after D- Amphetamine.

For research use only, not for clinical or diagnostic use.