PUF Assembly Kit

**Description:** This collection comprises 39 plasmids for assembly of a custom-made RNA-binding protein for recognition of an 8-base long target within an RNA of choice. The kit is based on the Pumilio and FBF (PUF) homology domain, which comprises amino acids 828-1176 of the full-length human Pumilio 1 protein. Eight modules corresponding to eight structural repeats of the PUF domain are assembled using the Golden Gate method. The collection comprises 4 variations of each module for the recognition of any of the 4 RNA bases. The kit also contains two receiving vectors, pET28-GG-PUF for Escherichia coli expression and pCMV-TTP (C147R)-GG-PUF for mammalian expression of PUF domain C-terminally fused to human tristetraprolin (TTP), a translational regulator.

More information can be found at:  
http://www.addgene.org/PUF-assembly-kit/


**Handling and Storage:** Store glycerol stocks at -80°C and minimize freeze-thaw cycles. To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

**Note:** These plasmid constructs are being distributed to non-profit institutions for the purpose of basic research.

Please contact Addgene at help@addgene.org with any questions.
Instructions: To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

How to Cite your Addgene Plasmids in Future Publications (Save for reference)

These plasmids were created by your colleagues. Please acknowledge the Principal Investigator, cite the article in which they were created, and include Addgene in the Materials and Methods of your future publications.

Information pertinent to your requested plasmids:

Principal Investigator: Huimin Zhao


Addgene: PUF Assembly Kit

If you have any questions about how to cite these plasmids, please contact Addgene at help@addgene.org or call (617) 225-9000.

Best wishes for many successful publications!