**pyr-p7c-SH-L** square pyramid, same elements as in TET12 5bLH, polar loops, higher polarity, helical propensity, higher stability of GCN, decreased stability of APH

**5 4 1-4-5-2-3-4-5-1-4-3-1-2-5-1-2-3-1**

**1**

**2 3**

**New design**

**P11SH-P3SH-BCRmSH-P6SH-APHshE-P4SH-GCNH3-P12SH-APHshE-P1SH-P7SH-BCRmSH- GCNH3-P8SH-P5SH-P2SH**

TODO:

Make P1,P2 and P11 P12 SH segments

M (NdeI)

**SPED ENKELEK EIKELEE EIKELEK KNKKLKW G**

**RGDG**

**SPED** **E**IQQL**E**E **E**I**S**QL**E**Q **KNSQ**L**K**E **KN**Q**Q**L**K**Y G

**RGDG**

**DIEQ** **E**LERA**KQ** SIRRL**E**Q **E**VNQERS RM**Q**YLQT LL**S**K

**RGDG**

**SPED** **KNSQ**L**K**E **E**IQ**Q**L**E**E **EN**Q**Q**L**E**E **K**I**SQ**L**K**Y G

**RGDG**

ELKQLE**E** ELQAIE**E** QLAQLQW KAQARK**E** KLAQLK

**RGDG**

**SPED** **K**I**S**QL**KQ** **K**IQ**Q**L**K**Q **EN**QQL**E**E **ENSQ**L**E**Y G

**RGDG**

**SPED** **EN**Q**Q**L**E**Q **KNS**QL**K**Q **E**I**SQ**L**E**Q **E**I**S**QL**E**Y G

**RGDG**

**SPED** **KNS**QL**K**E **K**I**SQ**L**K**E **K**IQQL**K**E **EN**Q**Q**L**E**Y G

**RGDG**

ELKQLE**E** ELQAIE**E** QLAQLQW KAQARK**E** KLAQLK

**RGDG**

**SPED** **E**IQAL**EQ** **EN**AQL**E**Q **EN**AAL**EQ** **E**IAQL**E**Y G

**RGDG**

**SPED** **E**IQ**S**L**E**E **KNSQ**L**K**Q **E**I**SQ**L**E**E **KN**Q**Q**L**K**Y G

**RGDG**

**DIEQ** **E**LERA**KQ** SIRRL**E**Q **E**VNQERS RM**Q**YLQT LL**S**K

**RGDG**

**SPED** **KNS**QL**K**E **ENSQ**L**E**E **K**IQQL**K**E **K**IQ**Q**L**K**Y G

**RGDG**

**SPED** **K**I**SQ**L**K**E **EN**QQL**E**Q **K**IQ**Q**L**K**E **ENSQ**L**E**Y G

**RGDG**

**SPED** **ENSQ**L**E**E **K**I**SQ**L**K**Q **KNSQ**L**K**E **E**IQ**Q**L**E**Y G

**RGDG**

**SPED** **K**I**D**QL**K**E **KN**A**D**L**K**E **KN**Q**D**L**K**E **K**I**D**AL**K**Y G

(XhoI ) **LEHHHHHHHH#**