



CRC

for

Premium

Quality

Wool

High Glycine/Tyrosine Keratin Associated Proteins

Produced for the CRC for Premium Quality Wool undergraduate program by;
Dr. Barry Powell & Dr. C. Simon Bawden, The University of Adelaide.



Glycine/Tyrosine-Rich Proteins

- Gly + Tyr content: 40- 60 mol%
- Most abundant amino acids:
 - glycine
 - tyrosine
- Two types of proteins
 - both are basic proteins of 60-85 amino acids
 - KAP 6 is a family of proteins
 - 1 type has 2 unique proteins (KAP7 & KAP8)
- No common amino acid repeat

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KAP8

- HGT Type I component F
- 62 amino acids
- 40 mol % glycine + tyrosine (Y)

S Y C F S S T V F P G C Y W G S Y G Y P L G Y
 S V G C G Y G S T Y S P V G Y G F G Y G Y N G
 S G A F G C R R F W P F A L Y

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