

## AMAS Conservation Summary

Conservation Threshold: 8 (Maximum: 10)  
 Number of gaps ( $\Delta$ ) ignored: 0  
 Proportion of atypical residues ignored : 0%

Sub-group A, sequences: 1 to 9  
 Sub-group B, sequences: 10 to 17  
 Sub-group C, sequences: 18 to 26

### 1 Identity between ALL sub-groups

( 1) ALL [G]

#### Identity between sub-group pairs

( 2) A,C [T]

#### Identity within one sub-group

( 3) B-[D] C-[Q]

( 5) A-[Y]

### 2 Conservation between ALL sub-group pairs

( 6) ALL (8,8,8) A-[IVLC] B-[VCIML] C-[ILV] Conserved: Hydrophobic Different: Small [ A B C ]  
 Aliphatic [ A B { C } ]

#### Conservation between sub-group pairs

( 4) A,C (9) : A-[Y] C-[FY] Conserved: Hydrophobic Different: Polar [ { A } C ]  
 Aromatic

( 7) A,B (9) A-[LM] B-[MLI] Conserved: Hydrophobic Different: Aliphatic [ A B ]

#### Difference between conserved sub-group pairs

( 3) B,C (7) : B-[D] C-[Q] Conserved: Polar Different: Small [ B ]  
 Negative [ B ]  
 Charged [ B ]

( 5) B,C (8)\* B-[CV] C-[GAC] Conserved: Hydrophobic Different: Tiny [ B ]  
 Small Aliphatic [ B ]

( 8) A,C (6) : A-[DE] C-[QR] Conserved: Polar Different: Small [ A ]  
 Positive [ C ]  
 Negative [ { A } ]  
 Charged [ { A } C ]

#### Conserved within one sub-group

( 9) 1-(9)[ILV] Conserved: Hydrophobic Different: Small [ A ]  
 Aliphatic

### 3 Unconserved within one sub-group

( 2) B-( 7)[TGV]

( 3) A-( 6)[LTAVI]

( 4) B-( 7)[TSA]

( 5) A-( 0)[SFRQPVLC]

( 7) C-( 2)[GEKRMLQ]

( 8) B-( 4)[ELD]

( 9) B-( 7)[LMFY] 3-( 6)[LVFYM]

#### Unconserved across ALL sub-groups

(10) A-( 1)[QREVNAIL] 2-( 1)[EAHTQLRS] 3-( 0)[ASVMLI $\Delta$ ]

Figure 4