FIGURE 1

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Z05     EEEVFRLAGH P FN L N S R D QL E  R  V  LF  D  E  LRLPALGKT (SEQ ID NO:12)
Taq     EAEVFRLAGH P FN L N S R D QL E  R  V  LF  D  E  LGLPAIGKT (SEQ ID NO:13)
Tfi     EAEVHRLAGH P FN L N S R D QL E  R  V  LF  D  E  LGLPPIGKT (SEQ ID NO:14)
Tfl     EEEVFRLAGH P FN L N S R D QL E  R  V  LF  D  E  LGLPAIGKT (SEQ ID NO:15)
Sps17   EAEVHRLAGH P FN L N S R D QL E  R  V  LF  D  E  LGLPPIGKT (SEQ ID NO:16)
Tth     EEEVFRLAGH P FN L N S R D QL E  R  V  LF  D  E  LRLPALGKT (SEQ ID NO:17)
Tca     EEEVFRLAGH P FN L N S R D QL E  R  V  LF  D  E  LRLPALGKT (SEQ ID NO:18)
Tma     AEEIYRIAGE P FN I N S P K QV S  R  I  LF  E  K  LGIKPRGKT (SEQ ID NO:19)
Tne     AEKIYQIAGE P FN I N S P K QV S  N  I  LF  E  K  LGIKPRGKT (SEQ ID NO:20)
Taf     KEKVFEIAGE T FN L N S S T QV A  Y  I  LF  E  K  LNIAPY-KK (SEQ ID NO:21)
Dra     ESQIHEYAGE E FH I R S P K QL E  T  V  LY  D  K  LELASSKKT (SEQ ID NO:23)
Bst     ERRIYELAGQ E FN I N S P K QL G  T  V  LF  D  K  LQLPVLKKT (SEQ ID NO:24)
Bca     EQRIYELAGQ E FN I N S P K QL G  V  I  LF  E  K  LQLPVLKKS (SEQ ID NO:25)
        -------AGX1X2FX3X4X5X6X7X8QX9X10X11X12LX13X14X15L---------(SEQ ID NO:26)
```

FIGURE 2

A.	Sequence identities over the entire polymerase I enzyme (corresponding to amino acids 1-834 of Z05)												
Name	**Z05**	**Taq**	**Tfi**	**Tfl**	**Sps17**	**Tth**	**Tca**	**Dra**	**Tma**	**Tne**	**Taf**	**Bst**	**Bca**
Z05		0.864	0.833	0.859	0.839	0.962	0.958	0.459	0.374	0.368	0.359	0.407	0.408
Taq	0.864		0.831	0.854	0.836	0.872	0.864	0.468	0.382	0.368	0.351	0.397	0.397
Tfi	0.833	0.831		0.82	0.991	0.829	0.824	0.45	0.371	0.375	0.353	0.405	0.397
Tfl	0.859	0.854	0.82		0.824	0.853	0.848	0.462	0.381	0.374	0.356	0.397	0.398
Sps17	0.839	0.836	0.991	0.824		0.835	0.83	0.452	0.375	0.377	0.355	0.407	0.399
Tth	0.962	0.872	0.829	0.853	0.835		0.989	0.463	0.373	0.367	0.358	0.406	0.406
Tca	0.958	0.864	0.824	0.848	0.83	0.989		0.46	0.371	0.365	0.356	0.404	0.404
Dra	0.459	0.468	0.45	0.462	0.452	0.463	0.46		0.334	0.325	0.314	0.338	0.339
Tma	0.374	0.382	0.371	0.381	0.375	0.373	0.371	0.334		0.854	0.567	0.37	0.377
Tne	0.368	0.368	0.375	0.374	0.377	0.367	0.365	0.325	0.854		0.558	0.377	0.376
Taf	0.359	0.351	0.353	0.356	0.355	0.358	0.356	0.314	0.567	0.558		0.356	0.364
Bst	0.407	0.397	0.405	0.397	0.407	0.406	0.404	0.338	0.37	0.377	0.356		0.881
Bca	0.408	0.397	0.397	0.398	0.399	0.406	0.404	0.339	0.377	0.376	0.364	0.881	
B.	**Sequence identities over polymerase sub domain only (corresponding to amino acids 420-834 of Z05)**												
Name	**Z05**	**Taq**	**Tfi**	**Tfl**	**Sps17**	**Tth**	**Tca**	**Dra**	**Tma**	**Tne**	**Taf**	**Bst**	**Bca**
Z05		0.901	0.845	0.891	0.845	0.975	0.973	0.563	0.483	0.478	0.44	0.498	0.49
Taq	0.901		0.879	0.901	0.877	0.906	0.901	0.561	0.488	0.473	0.44	0.503	0.495
Tfi	0.845	0.879		0.857	0.997	0.853	0.853	0.566	0.495	0.49	0.449	0.512	0.49
Tfl	0.891	0.901	0.857		0.855	0.889	0.889	0.571	0.492	0.48	0.444	0.494	0.485
Sps17	0.845	0.877	0.997	0.855		0.853	0.853	0.566	0.495	0.49	0.449	0.512	0.49
Tth	0.975	0.906	0.853	0.889	0.853		0.99	0.563	0.478	0.473	0.437	0.496	0.488
Tca	0.973	0.901	0.853	0.889	0.853	0.99		0.563	0.478	0.473	0.437	0.496	0.488
Dra	0.563	0.561	0.566	0.571	0.566	0.563	0.563		0.45	0.448	0.426	0.474	0.454
Tma	0.483	0.488	0.495	0.492	0.495	0.478	0.478	0.45		0.883	0.622	0.474	0.475
Tne	0.478	0.473	0.49	0.48	0.49	0.473	0.473	0.448	0.883		0.615	0.476	0.473
Taf	0.44	0.44	0.449	0.444	0.449	0.437	0.437	0.426	0.622	0.615		0.46	0.473
Bst	0.498	0.503	0.512	0.494	0.512	0.496	0.496	0.474	0.474	0.476	0.46		0.898
Bca	0.49	0.495	0.49	0.485	0.49	0.488	0.488	0.454	0.475	0.473	0.473	0.898	