

Table 5. Molecular genetic characteristics of Ig L chain V region segments and CDR3 of TCL1 mice

| Animal no. | Source | Isotype | V _L family | V _L gene | % difference from germ line | LCDR3 length | J _L gene | LCDR3 | | | pI |
|------------|--------|---------|-----------------------|---------------------|-----------------------------|--------------|---------------------|----------------|----------------------------------|----------------|------|
| TCL1-012 | Spleen | κ | Vκ4 | V4-91 | 0.3% | 13 | Jκ5 | QQ | GSSILT | FGAG | 5.5 |
| TCL1-018 | Spleen | κ | Vκ3 | V3-2 | 0% | 12 | Jκ4 | QH | NHGSFLP | FT | 7.17 |
| | | | Vκ8 | V8-19 | 12.2% | 10 | Jκ2 | QQ | SF ^E VP | YT | 3.62 |
| TCL1-017 | LN | κ | Vκ8 | V8-34 | 2.1% | 10 | Jκ5 | QQ | SYSA | PLT | 5.5 |
| | | | Vκ5 | V5-43 | 0.0% | 10 | Jκ1 | QQ | SNSWP | WT | 5.5 |
| | | | Vκ3 | V3-2 | 0.0% | 10 | Jκ2 | QQ | SK ^E V ^P Y | T | 6.13 |
| | | | Vκ3 | V3-10 | 0.0% | 10 | Jκ2 | QQ | NN ^E D ^Y | YT | 3.32 |
| | | | Vκ14 | V14-111 | 8.9% | 11 | Jκ4 | LQ | HG ^E H ^S P | FT | 6.0 |
| TCL1-015 | Spleen | κ | Vκ4 | V4-59 | 0.6% | 9 | Jκ1 | H ^Q | WSSY | R ^T | 9.05 |
| | | | Vκ3 | V3-2 | 2.6% | 10 | Jκ1 | QQ | SK ^E V ^P | WT | 6.13 |
| | | | Vκ6 | V6-15 | 0.0% | 10 | Jκ2 | QQ | YNSYP | YT | 5.5 |
| | | | Vκ14 | V14-111 | 0.0% | 10 | Jκ2 | LQ | HG ^E S ^P | YT | 5.14 |
| | | | Vκ4 | V4-59 | 0.6% | 9 | Jκ1 | H ^Q | WSSY | R ^T | 9.05 |
| TCL1-016 | Spleen | κ | Vκ1 | V1-110 | 1.4% | 10 | Jκ1 | S ^Q | STH ^V P | QT | 7.0 |
| | | | Vκ6 | V6-15 | 0.0% | 10 | Jκ1 | QQ | YNSYP | LT | 5.5 |
| | | | Vκ14 | V14-111 | 0.0% | 10 | Jκ4 | LQ | HG ^E S ^P | FT | 5.14 |

| Animal no. | Source | Isotype | V _L family | V _L gene | % difference from germ line | LCDR3 length | J _L gene | LCDR3 | pI |
|------------|----------|---------|-----------------------|---------------------|-----------------------------|--------------|---------------------|--------------|------|
| | | | V _κ 19 | V19-93 | 0.7% | 10 | J _κ 2 | LQ YDNLL YT | 3.43 |
| | | | V _κ 4 | V4-91 | 0.0% | 11 | J _κ 4 | QQ GSSIPN FT | 5.5 |
| | | | V _κ 6 | V6-23 | 4.1% | 10 | J _κ 4 | QQ YSNYP FT | 5.5 |
| TCL1-007 | Spl & LN | κ | V _κ 9 | V9-124 | 0.0% | 10 | J _κ 1 | LQ YASYP VD | 3.43 |
| TCL1-018 | Spl & LN | κ | V _κ 4 | V4-57 | 0.0% | 10 | J _κ 5 | QQ RSSYP LT | 9.05 |
| | | | V _κ 6 | V6-32 | 0.0% | 10 | J _κ 2 | QQ DYSSP LT | 3.43 |
| | | | V _κ 3 | V3-9 | 0.0% | 10 | J _κ 1 | MQ SMEDP WT | 3.32 |
| | | | V _κ 19 | V19-93 | 0.7% | 10 | J _κ 4 | LQ YDNLL FT | 3.43 |

Red letters indicate basic, positively charged amino acids; green letters indicate acidic, negatively charged amino acids.

Spl, spleen; LN, lymph node.