

Supplementary Datasheet 1. Alignment of amino acid sequences of CD44 between PWD and B6 mice

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|-----|---|-----|
| B6 | MDKFWWHTAWGLCLLQLSLAHPHQIDLVNVTCRYAGVFHVEKNGRYSISRTEAADLCQAF | 60 |
| PWD | MDKFWWHTAWGLCLLQLSLA--HQQIDLVNVTCRYAGVFHVEKNGRYSISRTEAADLCQAF | 58 |
| | ***** | |
| B6 | NSTLPTMDQMKLALSKEFETCRYGFIENNVVIPRIHPNAICANHTGVYILVTSNTSHYD | 120 |
| PWD | NSTLPTMDQMKLALSKEFETCRYGFIENNVVIPRIHPNAICANHTGVYILVTSNTSHYD | 118 |
| | ***** | |
| B6 | TYCFNASAPPEEDCTSVTDLPSNFDGPVTITIVNRDGTTRYSKKGEYRTHQEDIDASNIID | 180 |
| PWD | TYCFNASAPPEEDCTSVTDLPSNFDGPVTITIVNRDGTTRYSKKGEYRTHQEDIDASNIID | 178 |
| | ***** | |
| B6 | DDVSSGSTIEKSTPESYILHTYLPTEQPTGDQDSDFFIRSTLATIASTVHSHKSHAAAQKQ | 240 |
| PWD | DDVSSGSTIEKSTPESYILHTYLPTEQPTGDQDSDFFIRSTLATIASTVHSHKSHAAAQKQ | 238 |
| | ***** | |
| B6 | NNWIWSWFGNSQSTTQTQEPPTSATTALMTTPETPPKRQEAQNWFSWLFQPSSEKSHLHT | 300 |
| PWD | NNWIWSWFGNSQSTTQTQEPPTSATTALMTTPETPPKRQEAQNWFSWLFQPSSEKSHLHT | 298 |
| | ***** | |
| B6 | TTKMPGTESNTNPTGWEPNEENEDETDKYPSPFSGSIDDEDIFSSTIASTPRVSARTED | 360 |
| PWD | TTKMPGTESNTNPTGWEPNEENEDETDKYPSPFSGSIDDEDIFSSTIASTPRVSARTED | 358 |
| | ***** | |
| B6 | NQDWTQWKPNSNPEVLLQTTTRMADIDRISTSAHGENWTPEPQPPFNHEYQDEEETPH | 420 |
| PWD | NQDWTQWKPNSNPEVLLQTTTRMADIDRISTSAHGENWTPEPQPPFNHEYQDEEETPH | 418 |
| | ***** | |
| B6 | ATSTTPNSTAEAAATQQETWFQNGWQGNPPTPSED SHVTEGTASAHNNHPSQRITTS | 480 |
| PWD | ATSTTPNSTAEAAATQQETWFQNGWQGNPPTPSED SHVTEGTASAHNNHPSQRITTS | 478 |
| | ***** | |
| B6 | QEDVSWTDFDPI SHPMGQGHQTESKDTDSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTT | 540 |
| PWD | QEDVSWTDFDPI SHPMGQGHQTESKDTDSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTT | 538 |
| | ***** | |
| B6 | PQSHSQNFSTLHGEPEEDENHPTTSLPSSSTKSGAKDARRGSLPTDSTTSVEGYTFQYP | 600 |
| PWD | PQSHSQNFSTLHGEPEEDENHPTTSLPSSSTKSGAKDARRGSLPTDSTTSVEGYTFQYP | 598 |
| | ***** | |
| B6 | DTMENGTLFPVTPAKTEVFGETEVTLATDSNVNVDGSLPGDRDSSKDSRGSSRTVTHGSE | 660 |
| PWD | DTMENGTLFPVTPAKTEVFGETEVTLATDSNVNVDGSLPGDRDSSKDSRGSSRTVTHGSE | 658 |
| | ***** | |
| B6 | LAGHSSANQDSGVTTS GPMRRPQIPEWLIILASLLALALILAVCI AVNSRRRCGQKKKL | 720 |
| PWD | LAGHSSANQDSGVTTS GPMRRPQIPEWLIILASLLALALILAVCI AVNSRRRCGQKKKL | 718 |
| | ***** | |
| B6 | VINGNGTVEDRKPSSELNGEASKSQEMVHLVNKEPSETPDQCMTADETRNLQSVDKIGV | 780 |
| PWD | VINGNGTVEDRKPSSELNGEASKSQEMVHLVNKEPSETPDQCMTADETRNLQSVDKIGV | 778 |
| | ***** | |
| B6 | * 780 | |
| PWD | * 778 | |
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