

Clustal O alignment of LM04 proteins from vertebrates

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| Homo sapiens | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Mus musculus | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Bos | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Canis | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Cavia | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Danio | MVNSRVESAVAVTGGSGGAVRSCAGCGGRISDRFLLYSMERYWHTRCLKCSCCQAQLGE | 60 |
| Equus | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Felis | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Gallus | MVNPG-GSAQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Macaca | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Oryctolagus | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Rattus | MVNPG-SSSQPPPVTAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSCCQAQLGD | 59 |
| Takifugu | MVNSRLELPAVSVVGG-CSGARSCAGCGGRITDRFLLYSMERYWHTRCLRCSCCHAELGE | 59 |
| Tetraodon | LL---RSGRASVVLG-NSSFQTCAGCGGRIADRFLLYSMERYWHTRCLRCSCCHAQLGA | 56 |
| Xenopus | MVNNRVTESTTTAVSSNGGPPKACAGCGGKIADRFLLYSMERYWHTRCLKCSCCQAQLGE | 60 |
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| Homo sapiens | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Mus musculus | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Bos | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Canis | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Cavia | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Danio | IGSTCFKGGMILCRNDYIRLFGHSGACACGQSIPASEMVMRAQGNVYHLKCFCTCATCR | 120 |
| Equus | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Felis | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Gallus | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Macaca | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Oryctolagus | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Rattus | IGTSCYTKSGMILCRNDYIRLFGNSGACACGQSIPASELVMRAQGNVYHLKCFCTCSTCR | 119 |
| Takifugu | FSRSCYSRGGMILCKDDYIRLFGHTGACACGQTIPPSEMVMRAQGSVYHLKCFCTCATCR | 119 |
| Tetraodon | LSRSCYSRGGILILCRDDYARLFGHAGACGACGQTIPPSEMVMRAQGSVYHLKCFACATCR | 116 |
| Xenopus | IGTSCYTKSGMILCRNDYIRLFGSSGACACGQSIPASEMVMRAQGSVYHLKCFCTCATCR | 120 |
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| Homo sapiens | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Mus musculus | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Bos | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Canis | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Cavia | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVN | 165 |
| Danio | NRLVPGDRFHYVNGTIFCEHDRPGGALLSSHLTPLQSN-TLLPDQKVC | 167 |
| Equus | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Felis | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Gallus | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Macaca | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVN | 165 |
| Oryctolagus | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Rattus | NRLVPGDRFHYINGSLFCEHDRPTA-LINGHLNSLQSN-PLLPDQKVC | 165 |
| Takifugu | NRLVPGDRFHYINGSLFCEHDPGPELHGGHAAPLQASG-RMSEQKVC | 166 |
| Tetraodon | HRLVPGDRFHYVNGSVFCEQDHPGGQLLGGHAAPLQAGG-SLSERKGD | 163 |
| Xenopus | NRLVPGDRFHYVNGAIFCEHDRPTG-LLSGHLNPLQSNPPMLPDQKVC | 167 |
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