**Supplementary material II**

Matrix of morphological characters for Sialidae (Megaloptera) phylogenetic analysis (after Liu *et al*. 2015a) ?, missing data; –, inapplicable character. (Listed on the supplementary material I).

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|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part I (characters 0-54)** | | | | | | | | | | | |
| **SPECIES** | **CHARACTERS** | | | | | | | | | | |
| **0** | **5** | **10** | **15** | **20** | **25** | **30** | **35** | **40** | **45** | **50** |
| ***Platychauliodes capensis*** | 00000 | 00111 | 01100 | 00000 | 01000 | 00000 | 00000 | 12000 | 00000 | 00000 | 00000 |
| ***Sininocellia gigantos*** | 00000 | 01100 | 00000 | 01000 | 00200 | 01000 | 00100 | 00000 | 00000 | 00000 | 00000 |
| ***Austrosialis ignicollis*** | 00000 | 01000 | 00110 | 01110 | 00000 | 00100 | 00000 | 10000 | 00000 | 00000 | 00000 |
| ***Austrosialis maxmouldsi*** | 00000 | 01000 | 00110 | 01110 | 00000 | 00100 | 00000 | 10000 | 00000 | 00000 | 00000 |
| ***Stenosialis australiensis*** | 00000 | 01000 | 00110 | 01110 | 00000 | 10001 | 00000 | 11110 | 01000 | 00000 | 00000 |
| ***Stenosialis hollowyai*** | 00000 | 01000 | 00110 | 01110 | 00000 | 10001 | 00000 | 11110 | 01000 | 00000 | 00000 |
| ***Leptosialis africana*** | 00000 | 01011 | 11110 | 11110 | 20000 | 00000 | 00000 | 11100 | 00000 | 00000 | 00000 |
| ***Leptosialis necopinata*** | 00000 | 01000 | 10010 | 11110 | 20000 | 00000 | 00000 | 11100 | 00000 | 00000 | 00000 |
| ***Haplosialis afra*** | 00000 | 01010 | 01110 | 01110 | 10000 | 00000 | 00100 | 12000 | 00000 | 00000 | 00000 |
| ***Indosialis minora*** | 00010 | 11011 | 11110 | 01110 | 00000 | 00000 | 00100 | 12000 | 00000 | 00000 | 00000 |
| ***Indosialis bannaensis*** | 00010 | 11011 | 11110 | 01110 | 10000 | 00000 | 01100 | 12000 | 00000 | 00000 | 00000 |
| ***Indosialis indicus*** | 00010 | 11011 | 11110 | 01110 | 10000 | 00000 | 01100 | 12000 | 00000 | 00000 | 00000 |
| ***Ilyobius chilensis*** | 00000 | 01010 | 01110 | 01110 | 00001 | 00000 | 00000 | 12000 | 00000 | 00000 | 00001 |
| ***Ilyobius hauseri*** | 00000 | 01010 | 01110 | 01110 | 00001 | 00000 | 00000 | 12000 | 00000 | 00000 | 00001 |
| ***Ilyobius nigrocephalus*** | 00000 | 01010 | 01110 | 01110 | 00000 | 00000 | 10000 | 12000 | 00000 | 01000 | 00000 |
| ***Ilyobius flammatus*** | 00000 | 01010 | 01110 | 01110 | 00000 | 00000 | 00000 | 11000 | 00000 | 00000 | 00000 |
| ***Ilyobius mexicanus*** | 00000 | 01010 | 01110 | 01110 | 00000 | 00000 | 00000 | 11000 | 00000 | 00000 | 00000 |
| ***Ilyobius ranchograndis*** | 00000 | 01010 | 01110 | 01110 | 00000 | 00000 | 00000 | 11000 | 00000 | 00000 | 00000 |
| ***Caribesialis bifasciata*** | 0200? | ?1010 | 01110 | 01111 | 00000 | 00000 | 00000 | 02000 | 02000 | 00000 | 00000 |
| ***Protosialis americana*** | 01000 | 01010 | 01110 | 01110 | 01000 | 00000 | 00010 | 10000 | 00010 | 00000 | 00000 |
| ***Protosialis glabella*** | 01000 | 01010 | 01110 | 01110 | 01000 | 00000 | 00010 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis kumejimae*** | 02101 | 01110 | 01110 | 01111 | 01200 | 01010 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis jezoensis*** | 02101 | 01110 | 01110 | 01111 | 01000 | 00011 | 00001 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis kuwayamai*** | 02101 | 01110 | 01110 | 01111 | 01000 | 00011 | 00001 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis kunmingensis*** | 12101 | 01110 | 01111 | 01111 | 01000 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis luohanbaensis*** | 12101 | 01110 | 01111 | 01111 | 01000 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis elegans*** | 12101 | 21110 | 01111 | 01111 | 01000 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis versicoloris*** | 12101 | 21110 | 01111 | 01111 | 01000 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis fuliginosa*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis nevadensis*** | 12100 | 21110 | 01111 | 01110 | 01010 | 00011 | 00000 | 00000 | 00110 | 00000 | 00000 |
| ***Sialis rotunda*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis vagans*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis aequalis*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 00010 | 00000 | 00000 |
| ***Sialis contigua*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 00010 | 00000 | 00000 |
| ***Sialis martynovae*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 01010 | 00000 | 00000 |
| ***Sialis abchasica*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 01010 | 00000 | 00000 |
| ***Sialis zhiltzovae*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10000 | 01010 | 00000 | 00000 |
| ***Sialis klingstedti*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 01010 | 00000 | 00100 |
| ***Sialis levanidovae*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 01010 | 00000 | 00100 |
| ***Sialis lutaria*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 01010 | 00000 | 00110 |
| ***Sialis morio*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 01010 | 00000 | 00110 |
| ***Sialis sordida*** | 12100 | 21110 | 01111 | 01111 | 01010 | 00011 | 00000 | 10001 | 01010 | 00000 | 00110 |
| ***Sialis nigripes*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 00011 | 00000 | 00000 |
| ***Sialis mohri*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 20011 | 00000 | 00000 |
| ***Sialis spangleri*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 10011 | 00000 | 00000 |
| ***Sialis itasca*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 00011 | 10100 | 00000 |
| ***Sialis velata*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 00011 | 10100 | 00000 |
| ***Sialis concava*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 10011 | 11000 | 00000 |
| ***Sialis hasta*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 10011 | 11000 | 00000 |
| ***Sialis infumata*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 00011 | 11000 | 00000 |
| ***Sialis nina*** | 12100 | 21110 | 01111 | 01111 | 01100 | 00011 | 00000 | 10000 | 00011 | 11000 | 00000 |
| ***Sialis navasi*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 00000 | 10000 | 02010 | 00000 | 00000 |
| ***Sialis henanensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis japonica*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00010 | 00000 |
| ***Sialis sinensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00010 | 00000 |
| ***Sialis annae*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis bifida*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis longidens*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis melania*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00011 | 00000 |
| ***Sialis tohokuensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00011 | 00000 |
| ***Sialis kyushuensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00010 | 10000 |
| ***Sialis toyamaensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00010 | 10000 |
| ***Sialis iola*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis sibirica*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis yamatoensis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis arvalis*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis bilobata*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis occidens*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis cornuta*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis joppa*** | 12100 | 21110 | 01011 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis californica*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 00000 |
| ***Sialis driesbachi*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 01000 |
| ***Sialis hamata*** | 12100 | 21110 | 01111 | 01111 | 01100 | 01011 | 10000 | 10000 | 00010 | 00000 | 01000 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part II (characters 55-107)** | | | | | | | | | | | |
| **SPECIES** | **CHARACTERS** | | | | | | | | | | |
| **55** | **50** | **65** | **70** | **75** | **80** | **85** | **90** | **95** | **100** | **105** |
| ***Platychauliodes capensis*** | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 10000 | 000 |
| ***Sininocellia gigantos*** | 00100 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 10100 | 00000 | 10001 | 100 |
| ***Austrosialis ignicollis*** | 00010 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00100 | 00000 | 0000? | 111 |
| ***Austrosialis maxmouldsi*** | 00010 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00100 | 00000 | 0000? | 111 |
| ***Stenosialis australiensis*** | 01-10 | 00011 | 00000 | 00000 | 00000 | 00000 | 00000 | 00100 | 01000 | 00000 | 111 |
| ***Stenosialis hollowyai*** | 01-10 | 00011 | 00000 | 00000 | 00000 | 00000 | 00000 | 00100 | 01000 | 00000 | 111 |
| ***Leptosialis africana*** | 01-10 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00101 | 01000 | 0??0? | 111 |
| ***Leptosialis necopinata*** | 01-10 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00101 | 01000 | 00100 | 111 |
| ***Haplosialis afra*** | 11-10 | 10000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00100 | 00000 | 01200 | 111 |
| ***Indosialis minora*** | 01-10 | 10000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00101 | 01000 | 01100 | 111 |
| ***Indosialis bannaensis*** | 01-10 | 10000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00101 | 01000 | 01100 | 111 |
| ***Indosialis indicus*** | 01-10 | 10000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00??? | ????? | ????? | 111 |
| ***Ilyobius chilensis*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00010 | 10100 | 01101 | 00100 | 111 |
| ***Ilyobius hauseri*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00010 | ?0100 | 01101 | 0010? | 111 |
| ***Ilyobius nigrocephalus*** | 01-10 | 101-0 | 00000 | 10000 | 00100 | 00000 | 10000 | 11110 | 01100 | 00-0- | 111 |
| ***Ilyobius flammatus*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 11??? | ????? | ????? | 111 |
| ***Ilyobius mexicanus*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 11110 | 01000 | 00200 | 111 |
| ***Ilyobius ranchograndis*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 11110 | 01000 | 0020? | 111 |
| ***Caribesialis bifasciata*** | 00110 | -0000 | 00000 | 00000 | 00100 | 00000 | 00000 | 01100 | 00000 | 10011 | 111 |
| ***Protosialis americana*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00100 | 01000 | 10011 | 111 |
| ***Protosialis glabella*** | 01-10 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00100 | 01000 | 10011 | 111 |
| ***Sialis kumejimae*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 01000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis jezoensis*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis kuwayamai*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis kunmingensis*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00100 | 00??? | ????? | ????? | 111 |
| ***Sialis luohanbaensis*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00100 | 00000 | 01000 | 10001 | 111 |
| ***Sialis elegans*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 01000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis versicoloris*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 01000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis fuliginosa*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis nevadensis*** | 01-11 | 00000 | 00000 | 10000 | 00100 | 00000 | 00000 | 00100 | 01000 | 10001 | 111 |
| ***Sialis rotunda*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00001 | 00000 | 01000 | 10001 | 111 |
| ***Sialis vagans*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00001 | 00000 | 11000 | 10001 | 111 |
| ***Sialis aequalis*** | 01-11 | 00000 | 00100 | 00000 | 00100 | 00000 | 00001 | 00000 | 11000 | 10001 | 111 |
| ***Sialis contigua*** | 01-11 | 00000 | 00100 | 00000 | 00100 | 00000 | 00001 | 00000 | 11000 | 10001 | 111 |
| ***Sialis martynovae*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 10000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis abchasica*** | 00111 | 00000 | 00110 | 10000 | 00100 | 00000 | 10000 | 00000 | 01000 | 1000? | 111 |
| ***Sialis zhiltzovae*** | 00111 | 00000 | 00110 | 10000 | 00100 | 00000 | 10000 | 00000 | 01000 | 1000? | 111 |
| ***Sialis klingstedti*** | 01-11 | 00000 | 00100 | 11001 | 00100 | 00000 | 10000 | 00000 | 01010 | 1000? | 111 |
| ***Sialis levanidovae*** | 00111 | 00000 | 00100 | 10001 | 00100 | 00000 | 10000 | 00000 | 01010 | 10001 | 111 |
| ***Sialis lutaria*** | 01-11 | 00000 | 00100 | 10001 | 00100 | 00000 | 10000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis morio*** | 00111 | 00000 | 00100 | 11001 | 00100 | 00000 | 10000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis sordida*** | 00111 | 00000 | 00100 | 10001 | 00100 | 00000 | 10000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis nigripes*** | 01-11 | 01000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis mohri*** | 01-11 | 01100 | 00000 | 00000 | 00110 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis spangleri*** | 01-11 | 01100 | 00000 | 00000 | 00110 | 00000 | 00000 | 00??? | ????? | ????? | 111 |
| ***Sialis itasca*** | 01-11 | 01100 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis velata*** | 01-11 | 01100 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis concava*** | 01-11 | 01000 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis hasta*** | 01-11 | 01100 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis infumata*** | 01-11 | 01100 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis nina*** | 01-11 | 01000 | 00000 | 00000 | 00111 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis navasi*** | 01-11 | 00000 | 00000 | 00000 | 00100 | 00000 | 00000 | 00??? | ????? | ????? | 111 |
| ***Sialis henanensis*** | 01-11 | 00000 | 01000 | 00011 | 01100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis japonica*** | 01-11 | 00000 | 01000 | 00011 | 01100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis sinensis*** | 01-11 | 00000 | 01000 | 00011 | 01100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis annae*** | 01-11 | 00000 | 01000 | 00001 | 01100 | 10000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis bifida*** | 01-11 | 00000 | 01000 | 00001 | 01100 | 10000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis longidens*** | 01-11 | 00000 | 01000 | 00001 | 01100 | 10000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis melania*** | 01-11 | 00000 | 01000 | 00000 | 01100 | 01000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis tohokuensis*** | 01-11 | 00000 | 01000 | 00000 | 01100 | 01000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis kyushuensis*** | 01-11 | 00000 | 01000 | 00000 | 01100 | 01000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis toyamaensis*** | 01-11 | 00000 | 01000 | 00000 | 01100 | 01000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis iola*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis sibirica*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis yamatoensis*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis arvalis*** | 01-11 | 00000 | 11001 | 00101 | 10100 | 00000 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis bilobata*** | 01-11 | 00000 | 11001 | 00101 | 10100 | 00000 | 00000 | 00000 | 01000 | 1000? | 111 |
| ***Sialis occidens*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00100 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis cornuta*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00101 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis joppa*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00101 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis californica*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00110 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis driesbachi*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00110 | 00000 | 00000 | 01000 | 10001 | 111 |
| ***Sialis hamata*** | 01-11 | 00000 | 11001 | 00001 | 10100 | 00110 | 00000 | 00000 | 01000 | 10001 | 111 |