|  |  |  |
| --- | --- | --- |
| **mRNA Sequence** | **Datetype** | **Notes** |
| mRNA ID | VARCHAR(255) | Primary Key |
| mRNA length | INT |  |
| Gene name - HGNC | CHAR(20) | Foreign Key |
| Organism | VARCHAR(255) | Foreign Key |
| Gene sequence | TEXT |  |
| Tissue | VARCHAR(255) | Foreign Key |
| Expression level | INT |  |
| Position of start of ORF | INT | stored as Chr:number |
| Position of stop of ORF | INT | stored as Chr:number |

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| **Gene Name** | **Datetype** | **Notes** |
| HGNC ID | VARCHAR(10) | Primary Key |
| Alias #1 | VARCHAR(10) |  |
| Alias #2 | VARCHAR(10) |  |
| Alias #3 | VARCHAR(10) |  |
| Common Name | VARCHAR(10) |  |
| Function | VARCHAR(255) | Foreign Key |

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| **Organism** | **Datatype** | **Notes** |
| Organism ID | VARCHAR(50) | Primary Key |
| Clade | VARCHAR(50) | Foreign Key |
| Sub-clade A | VARCHAR(50) | Foreign Key |
| Sub-clade B | VARCHAR(50) | Foreign Key |

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| **Tissue** | **Datatype** | **Notes** |
| Tissue ID | VARCHAR(10) | Primary Key |
| Cell type | VARCHAR(255) | Foreign Key |
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