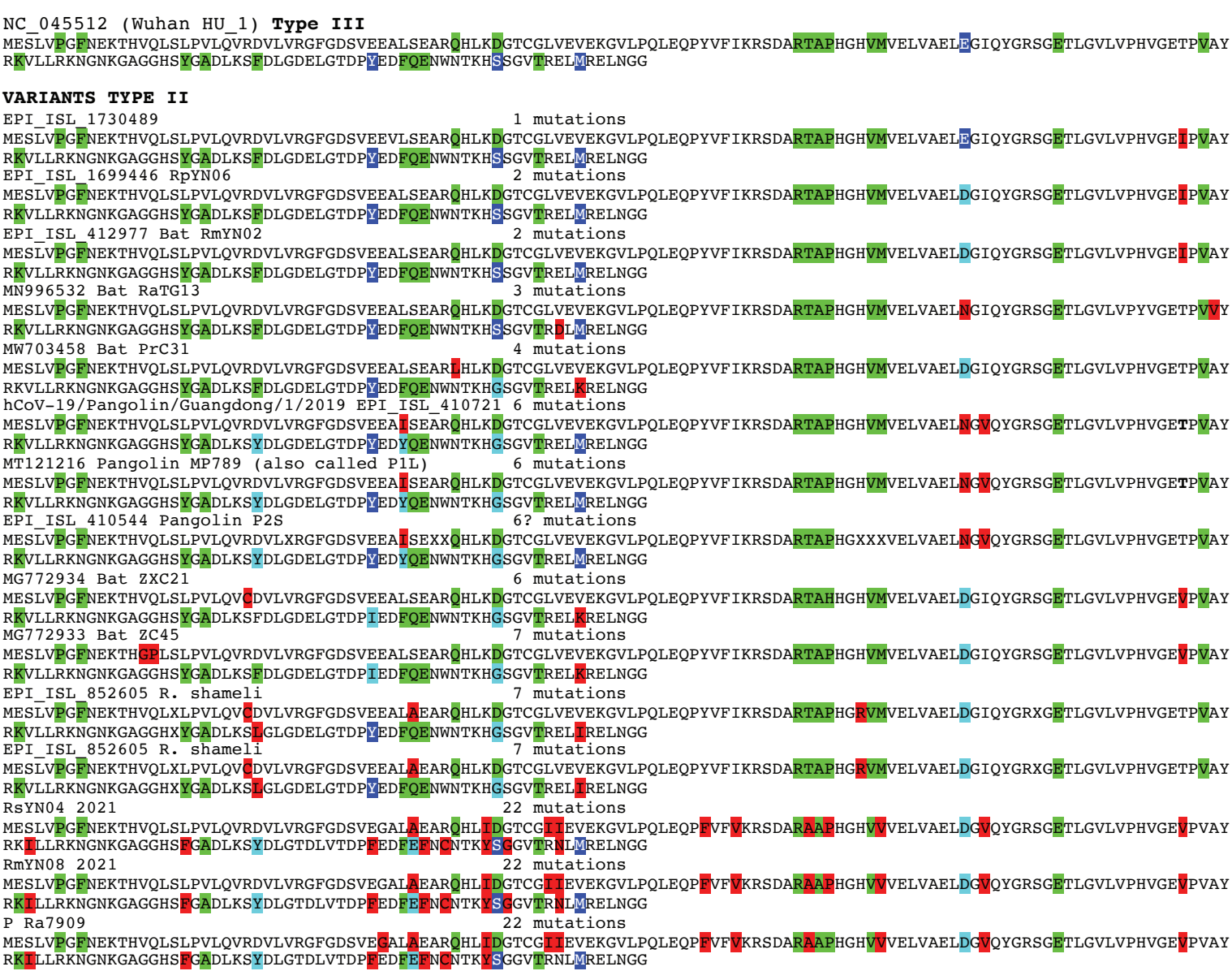
NC_045512 (Wuhan HU_1) **Type III**
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGETPVAY
RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG
**VARIANTS TYPE II**
EPI_ISL_1730489 1 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEVLSEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAY
RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG
EPI_ISL_1699446 RpYN06 2 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELDGIQYGRSGETLGVLVPHVGEIPVAY
RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG
EPI_ISL_412977 Bat RmYN02 2 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELDGIQYGRSGETLGVLVPHVGEIPVAY
RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG
MN996532 Bat RaTG13 3 mutations
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RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRDLMRELNGG
MW703458 Bat PrC31 4 mutations
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RKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHGSGVTRELKRELNGG
hCoV-19/Pangolin/Guangdong/1/2019 EPI_ISL_410721 6 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEAISEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELNGVQYGRSGETLGVLVPHVGETPVAY
RKVLLRKNGNKGAGGHSYGADLKSYDLGDELGTDPYEDYQENWNTKHGSGVTRELMRELNGG
MT121216 Pangolin MP789 (also called P1L) 6 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEAISEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGHVMVELVAELNGVQYGRSGETLGVLVPHVGETPVAY
RKVLLRKNGNKGAGGHSYGADLKSYDLGDELGTDPYEDYQENWNTKHGSGVTRELMRELNGG
EPI_ISL_410544 Pangolin P2S 6? mutations
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RKVLLRKNGNKGAGGHSYGADLKSYDLGDELGTDPYEDYQENWNTKHGSGVTRELMRELNGG
MG772934 Bat ZXC21 6 mutations
MESLVPGFNEKTHVQLSLPVLQVCDVLVRGFGDSVEEALSEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAHHGHVMVELVAELDGIQYGRSGETLGVLVPHVGEVPVAY
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MG772933 Bat ZC45 7 mutations
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EPI_ISL_852605 R. shameli 7 mutations
MESLVPGFNEKTHVQLXLPVLQVCDVLVRGFGDSVEEALAEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGRVMVELVAELDGIQYGRXGETLGVLVPHVGETPVAY
RKVLLRKNGNKGAGGHXYGADLKSLGLGDELGTDPYEDFQENWNTKHGSGVTRELIRELNGG
EPI_ISL_852605 R. shameli 7 mutations
MESLVPGFNEKTHVQLXLPVLQVCDVLVRGFGDSVEEALAEARQHLKDGTCGLVEVEKGVLPQLEQPYVFIKRSDARTAPHGRVMVELVAELDGIQYGRXGETLGVLVPHVGETPVAY
RKVLLRKNGNKGAGGHXYGADLKSLGLGDELGTDPYEDFQENWNTKHGSGVTRELIRELNGG
RsYN04 2021 22 mutations
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RKILLRKNGNKGAGGHSFGADLKSYDLGTDLVTDPFEDFEFNCNTKYSGGVTRNLMRELNGG
RmYN08 2021 22 mutations
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P Ra7909 22 mutations
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEGALAEARQHLIDGTCGIIEVEKGVLPQLEQPFVFVKRSDARAAPHGHVVVELVAELDGVQYGRSGETLGVLVPHVGEVPVAY
RKILLRKNGNKGAGGHSFGADLKSYDLGTDLVTDPFEDFEFNCNTKYSGGVTRNLMRELNGG