










Supplementary Table 2: DNA Construction Symbols

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|---|--|---|--|
|  | Primer Binding Site <i>Non-covalent primer binding site for initiation of replication, transcription, or reverse transcription.</i> SO Accession: SO:0005850 |  | 5' Overhang <i>A terminal region of DNA sequence where the end of the region is not blunt ended and the exposed single strand terminates at the 5' end.</i> SO Accession: SO:0001932 |
|  | Restriction Enzyme Recognition Site <i>A binding site that, in the nucleotide molecule, interacts selectively and noncovalently with polypeptide residues of a restriction enzyme.</i> SO Accession: SO:0000061, SO:0001687 |  | 3' Overhang <i>A terminal region of DNA sequence where the end of the region is not blunt ended and the exposed single strand terminates at the 3' end.</i> SO Accession: SO:0001933 |
|  | 5' Sticky restriction site <i>A restriction enzyme recognition site that, when cleaved, results in 5 prime overhangs.</i> SO Accession: SO:0001975 |  | Assembly Junction / Assembly Scar <i>A region of DNA sequence formed from the ligation of two sticky ends where the palindrome is broken and no longer comprises the recognition site and thus cannot be re-cut by the restriction enzymes used to create the sticky ends.</i> SO Accession: SO:0001953 |
|  | 3' Sticky restriction site <i>A restriction enzyme recognition site that, when cleaved, results in 3 prime overhangs.</i> SO Accession: SO:0001976 |  | Signature / Barcode <i>A region of sequence where developer information is encoded.</i> SO Accession: SO:0001978 |
|  | Restriction Site Resulting in No Overhang / Blunt Restriction Site <i>A restriction enzyme recognition site that, when cleaved, results in no overhangs.</i> SO Accession: SO:0001691 | | |