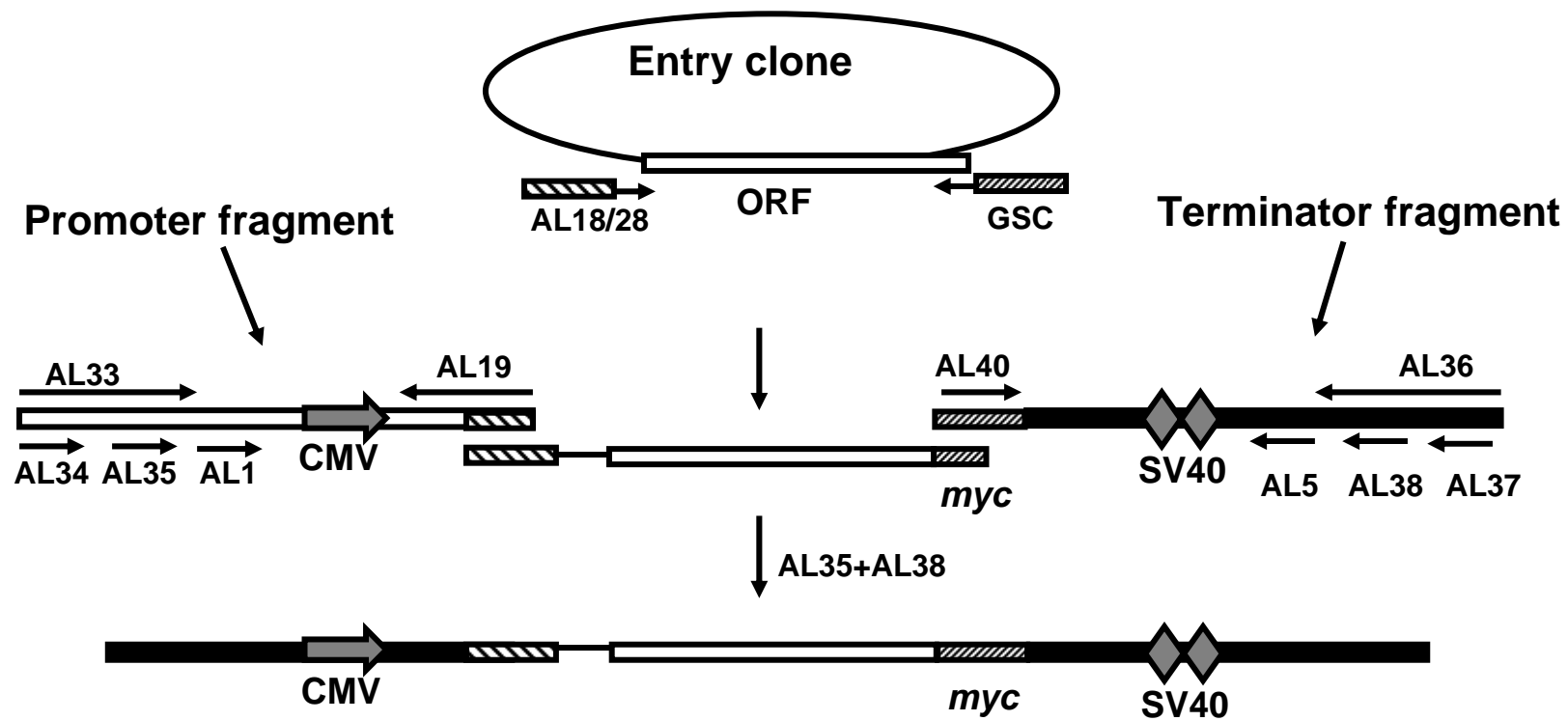


**Supplementary table1:** Primer sequences used in the fusion PCR technique

| Oligo name                              | Primers for Gene specific products                                     | Description  |
|---|--|--|
| GSN1                                    | GAAGGAGCCGCCACCATG (X)n  | In frame gene-specific overlap primer for N-terminal tagging                         |
| GSC1                                    | ATCCTTCTGATATCAGCTTCTGTTC (X)n   | In frame gene-specific overlap primer for C-terminal tagging                         |
| P8                                      | AGCGGATAACAATTTACACAGGAAAC   | Vector specific primer used for FANTOM clones in N-term system                       |
| P15                                     | AGCGGATAACAATTTACACAGGAAACCGCCAGGGTTTTCCCAGTCACGAC                     | Vector specific primer used for ZA series FANTOM clones in N-term system             |
| AL18                                    | GGACTCAGATCTCGAGCTCAAGGAATTGTAATACGACTCACTATAGG                        | Vector specific primer used for FANTOM clones in N-term system                       |
| AL28                                    | GGACTCAGATCTCGAGCTCAAGGAATTAACCTCACTAAAGGG                             | Vector specific primer used for ZA series FANTOM clones in N-term system             |
| <b>Primers for promoter fragments</b>   |  |  |
| AL33                                    | GACGCGCTTCTGCTTCGAGACTCGCTTACCTGATGCTGCGTTATCCCCTGATTCTGTGGA           | Used to introduce primer sequences AL34 and AL35 to promoter cassette from EGFP-C1   |
| AL34                                    | GACGCGCTTCTGCTTCGAGAC  | Used to amplify the promoter fragment  |
| AL35                                    | GACTCGCTTACCTGATGCTGC  | Nested primer used to prime off the promoter fragment during the fusion PCR step     |
| AL1                                     | AACCGTATTACCGCCATGCAT  | Additional promoter fragment nested primer for reamplification of weak products      |
| AL41                                    | CATGGTGGCGGCTCCTTCCAGATCCTTCTGATATCAGCTTCTGTTCCATGGTGGCGACCGGTAGCGCTAG | Used to introduce an n-terminal myc tag onto the CMV promoter cassette from EGFP-C1  |
| AL19                                    | CTTGAGCTCGAGATCTGAGTCC   | Used to amplify the CMV promoter cassette from EGFP-C1                               |
| <b>Primers for terminator fragments</b> |  |  |
| AL36                                    | GGCTCTTGCATGGTTTGACGACGTGCTCAGTACGCTGGACAAACCACAAC TAGAATGC            | Used to introduce primer sequences AL37 and AL38 to terminator cassette from EGFP-C1 |
| AL37                                    | GGCTCTTGCATGGTTTGACG   | Used to amplify the terminator fragment  |
| AL38                                    | CGACGTGCTCAGTACGCTGGA  | Nested primer used to prime off the terminator fragment during the fusion PCR step   |
| AL5                                     | GGACAAACCACAAC TAGAATGC  | Additional terminator fragment nested primer for reamplification of weak products    |
| AL25                                    | GTTTCCTGTGTGAAATTGTTATCCGCTCGAATCTGTCAGTCGACGGTACC                     | nterm vec overlap for term   |
| AL40                                    | GAACAGAAGCTGATATCAGAAGAGGATCTGtagCGAATCTGTCAGTCGACGGTACC               | cterm sys myc term   |



Supplementary figure 1: Generation of c-terminally tagged open reading frames