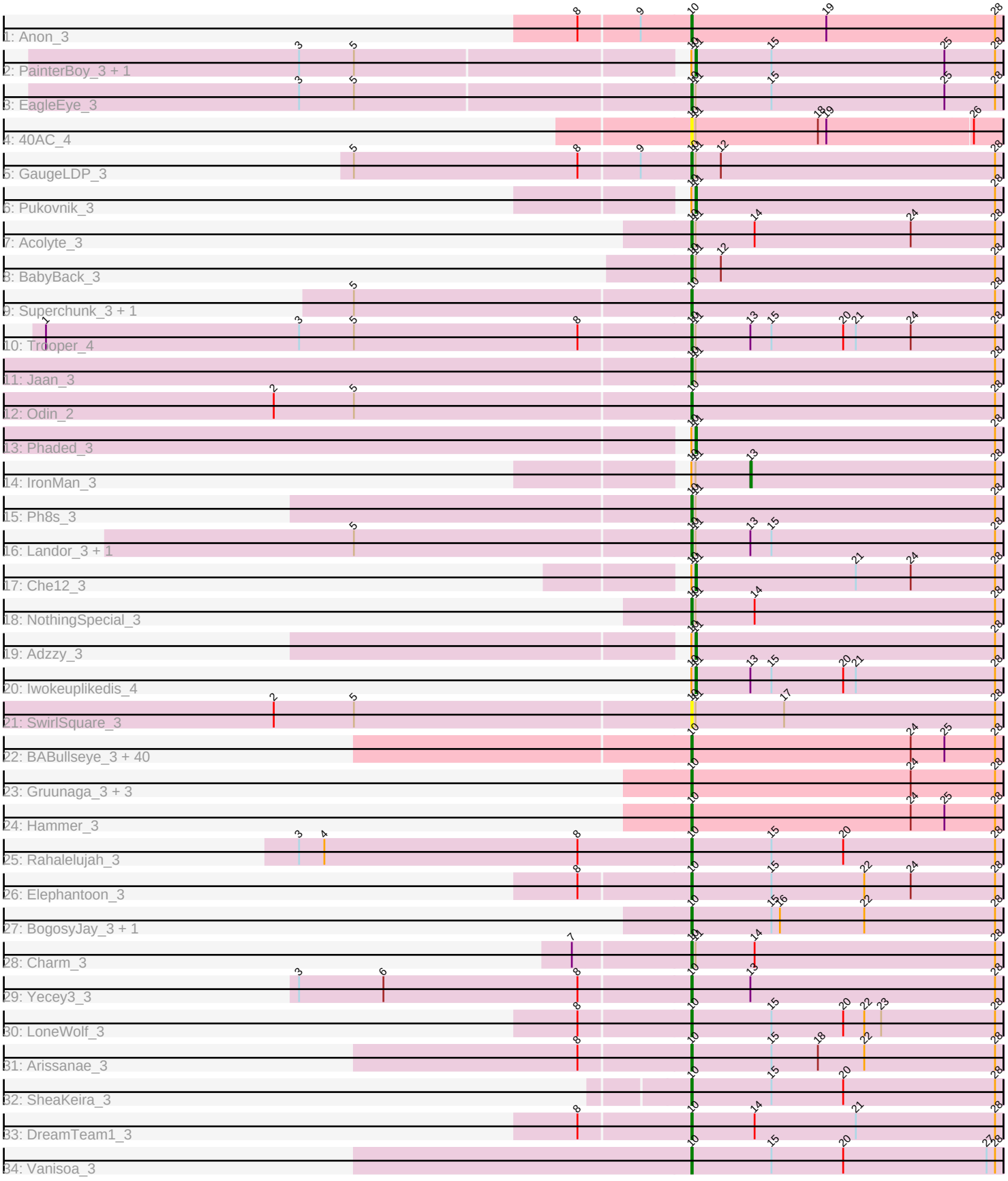
Pham 193940


1: Anon_3
2: PainterBoy_3 + 1
3: EagleEye_3
4: 40AC_4
5: GaugeLDP_3
6: Pukovnik_3
7: Acolyte_3
8: BabyBack_3
9: Superchunk_3 + 1
10: Trooper_4
11: Jaan_3
12: Odin_2
13: Phaded_3
14: IronMan_3
15: Ph8s_3
16: Landor_3 + 1
17: Che12_3
18: NothingSpecial_3
19: Adzzy_3
20: Iwokeuplikedis_4
21: SwirlSquare_3
22: BABullseye_3 + 40
23: Gruunaga_3 + 3
24: Hammer_3
25: Rahalelujah_3
26: Elephantoon_3
27: BogosyJay_3 + 1
28: Charm_3
29: Yecey3_3
30: LoneWolf_3
31: Arissanae_3
32: SheaKeira_3
33: DreamTeam1_3
34: Vanisoa_3

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 193940 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193940 has 81 members, 7 are drafts.

Phages represented in each track:
- Track 1 : Anon_3
- Track 2 : PainterBoy_3, Lucyedi_3
- Track 3 : EagleEye_3
- Track 4 : 40AC_4
- Track 5 : GaugeLDP_3
- Track 6 : Pukovnik_3
- Track 7 : Acolyte_3
- Track 8 : BabyBack_3
- Track 9 : Superchunk_3, Caraxes_3
- Track 10 : Trooper_4
- Track 11 : Jaan_3
- Track 12 : Odin_2
- Track 13 : Phaded_3
- Track 14 : IronMan_3
- Track 15 : Ph8s_3
- Track 16 : Landor_3, Bactobuster_3
- Track 17 : Che12_3
- Track 18 : NothingSpecial_3
- Track 19 : Adzzy_3
- Track 20 : Iwokeuplikedis_4
- Track 21 : SwirlSquare_3
- Track 22 : BABullseye_3, SmellyB_3, Jeffabunny_3, Koko_3, Wiks_3, Indra_3, DaVinci_3, Helmet_3, Kipper29_3, Yokurt_3, McFly_3, Blinn1_3, Hexamo_3, EricB_3, Zaka_3, ToneTone_3, Dorothea_3, Cookiedough_3, GreedyLawyer_3, VohminGhazi_3, Chartreuse_3, Neeharika16_3, Priamo_3, Roksolana_3, CloudWang3_3, SuperAwesome_3, Candra_3, Isiphiwo_3, Tucker_3, Hoot_3, WunderPhul_3, Newrala_3, Garak_3, Kazan_3, Pmask_3, JewelBug_3, Lilbunny_3, Jordennis_3, SuperCallie99_3, Artemis2UCLA_3, Zulu_3
- Track 23 : Gruunaga_3, Gladiator_3, Blue7_3, Rifter_3
- Track 24 : Hammer_3
- Track 25 : Rahalelujah_3
- Track 26 : Elephantoon_3
- Track 27 : BogosyJay_3, Maminiaina_3
- Track 28 : Charm_3
- Track 29 : Yecey3_3
- Track 30 : LoneWolf_3
- Track 31 : Arissanae_3

• Track 32 : SheaKeira_3
• Track 33 : DreamTeam1_3
• Track 34 : Vanisoa_3

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 10, it was called in 66 of the 74 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 40AC_4, Acolyte_3, Anon_3, Arissanae_3, Artemis2UCLA_3, BABullseye_3, BabyBack_3, Bactobuster_3, Blinn1_3, Blue7_3, BogosyJay_3, Candra_3, Caraxes_3, Charm_3, Chartreuse_3, CloudWang3_3, Cookiedough_3, DaVinci_3, Dorothea_3, DreamTeam1_3, EagleEye_3, Elephantoon_3, EricB_3, Garak_3, GaugeLDP_3, Gladiator_3, GreedyLawyer_3, Gruunaga_3, Hammer_3, Helmet_3, Hexamo_3, Hoot_3, Indra_3, Isiphiwo_3, Jaan_3, Jeffabunny_3, JewelBug_3, Jordennis_3, Kazan_3, Kipper29_3, Koko_3, Landor_3, Lilbunny_3, LoneWolf_3, Maminiaina_3, McFly_3, Neeharika16_3, Newrala_3, NothingSpecial_3, Odin_2, Ph8s_3, Pmask_3, Priamo_3, Rahalelujah_3, Rifter_3, Roksolana_3, SheaKeira_3, SmellyB_3, SuperAwesome_3, SuperCallie99_3, Superchunk_3, SwirlSquare_3, ToneTone_3, Trooper_4, Tucker_3, Vanisoa_3, VohminGhazi_3, Wiks_3, WunderPhul_3, Yecey3_3, Yokurt_3, Zaka_3, Zulu_3,

Genes that have the "Most Annotated" start but do not call it:
• Adzzy_3, Che12_3, IronMan_3, Iwokeuplikedis_4, Lucyedi_3, PainterBoy_3, Phaded_3, Pukovnik_3,

Genes that do not have the "Most Annotated" start:
•

Summary by start number:

Start 10:
• Found in 81 of 81 (100.0%) of genes in pham
• Manual Annotations of this start: 66 of 74
• Called 90.1% of time when present
• Phage (with cluster) where this start called: 40AC_4 (A17), Acolyte_3 (A2), Anon_3 (A15), Arissanae_3 (A9), Artemis2UCLA_3 (A6), BABullseye_3 (A6), BabyBack_3 (A2), Bactobuster_3 (A2), Blinn1_3 (A6), Blue7_3 (A6), BogosyJay_3 (A9), Candra_3 (A6), Caraxes_3 (A2), Charm_3 (A9), Chartreuse_3 (A6), CloudWang3_3 (A6), Cookiedough_3 (A6), DaVinci_3 (A6), Dorothea_3 (A6), DreamTeam1_3 (A9), EagleEye_3 (A16), Elephantoon_3 (A9), EricB_3 (A6), Garak_3 (A6), GaugeLDP_3 (A2), Gladiator_3 (A6), GreedyLawyer_3 (A6), Gruunaga_3 (A6), Hammer_3 (A6), Helmet_3 (A6), Hexamo_3 (A6), Hoot_3 (A6), Indra_3 (A6), Isiphiwo_3 (A6), Jaan_3 (A2), Jeffabunny_3 (A6), JewelBug_3 (A6), Jordennis_3 (A6), Kazan_3 (A6), Kipper29_3 (A6), Koko_3 (A6), Landor_3 (A2), Lilbunny_3 (A6), LoneWolf_3 (A9), Maminiaina_3 (A9), McFly_3 (A6), Neeharika16_3 (A6), Newrala_3 (A6), NothingSpecial_3 (A2), Odin_2 (A2), Ph8s_3 (A2), Pmask_3 (A6), Priamo_3 (A6), Rahalelujah_3 (A9), Rifter_3 (A6), Roksolana_3 (A6), SheaKeira_3 (A9), SmellyB_3 (A6), SuperAwesome_3 (A6), SuperCallie99_3 (A6), Superchunk_3 (A2),

SwirlSquare_3 (A2), ToneTone_3 (A6), Trooper_4 (A2), Tucker_3 (A6), Vanisoa_3 (A9), VohminGhazi_3 (A6), Wiks_3 (A6), WunderPhul_3 (A6), Yecey3_3 (A9), Yokurt_3 (A6), Zaka_3 (A6), Zulu_3 (A6),

Start 11:
• Found in 21 of 81 (25.9%) of genes in pham
• Manual Annotations of this start: 7 of 74
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Adzzy_3 (A2), Che12_3 (A2), Iwokeuplikedis_4 (A2), Lucyedi_3 (A16), PainterBoy_3 (A16), Phaded_3 (A2), Pukovnik_3 (A2),

Start 13:
• Found in 6 of 81 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 74
• Called 16.7% of time when present
• Phage (with cluster) where this start called: IronMan_3 (A2),

Summary by clusters:

There are 6 clusters represented in this pham: A15, A17, A16, A2, A6, A9,

Info for manual annotations of cluster A15:
•Start number 10 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:
•Start number 10 was manually annotated 1 time for cluster A16.
•Start number 11 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 10 was manually annotated 11 times for cluster A2.
•Start number 11 was manually annotated 5 times for cluster A2.
•Start number 13 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A6:
•Start number 10 was manually annotated 42 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 10 was manually annotated 11 times for cluster A9.

Gene Information:

Gene: 40AC_4 Start: 2081, Stop: 2299, Start Num: 10
Candidate Starts for 40AC_4:
(Start: 10 @2081 has 66 MA's), (Start: 11 @2084 has 7 MA's), (18, 2171), (19, 2177), (26, 2279),

Gene: Acolyte_3 Start: 1904, Stop: 2125, Start Num: 10
Candidate Starts for Acolyte_3:
(Start: 10 @1904 has 66 MA's), (Start: 11 @1907 has 7 MA's), (14, 1949), (24, 2060), (28, 2120),

Gene: Adzzy_3 Start: 1945, Stop: 2163, Start Num: 11
Candidate Starts for Adzzy_3:
(Start: 10 @1942 has 66 MA's), (Start: 11 @1945 has 7 MA's), (28, 2158),

Gene: Anon_3 Start: 1964, Stop: 2185, Start Num: 10
Candidate Starts for Anon_3:
(8, 1898), (9, 1940), (Start: 10 @1964 has 66 MA's), (19, 2060), (28, 2180),

Gene: Arissanae_3 Start: 1903, Stop: 2124, Start Num: 10
Candidate Starts for Arissanae_3:
(8, 1837), (Start: 10 @1903 has 66 MA's), (15, 1960), (18, 1993), (22, 2026), (28, 2119),

Gene: Artemis2UCLA_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Artemis2UCLA_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: BABullseye_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for BABullseye_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: BabyBack_3 Start: 1878, Stop: 2099, Start Num: 10
Candidate Starts for BabyBack_3:
(Start: 10 @1878 has 66 MA's), (Start: 11 @1881 has 7 MA's), (12, 1899), (28, 2094),

Gene: Bactobuster_3 Start: 1888, Stop: 2109, Start Num: 10
Candidate Starts for Bactobuster_3:
(5, 1663), (Start: 10 @1888 has 66 MA's), (Start: 11 @1891 has 7 MA's), (Start: 13 @1930 has 1 MA's), (15, 1945), (28, 2104),

Gene: Blinn1_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Blinn1_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Blue7_3 Start: 1914, Stop: 2135, Start Num: 10
Candidate Starts for Blue7_3:
(Start: 10 @1914 has 66 MA's), (24, 2070), (28, 2130),

Gene: BogosyJay_3 Start: 1884, Stop: 2105, Start Num: 10
Candidate Starts for BogosyJay_3:
(Start: 10 @1884 has 66 MA's), (15, 1941), (16, 1947), (22, 2007), (28, 2100),

Gene: Candra_3 Start: 1958, Stop: 2179, Start Num: 10
Candidate Starts for Candra_3:
(Start: 10 @1958 has 66 MA's), (24, 2114), (25, 2138), (28, 2174),

Gene: Caraxes_3 Start: 1936, Stop: 2157, Start Num: 10
Candidate Starts for Caraxes_3:
(5, 1711), (Start: 10 @1936 has 66 MA's), (28, 2152),

Gene: Charm_3 Start: 1890, Stop: 2111, Start Num: 10
Candidate Starts for Charm_3:
(7, 1821), (Start: 10 @1890 has 66 MA's), (Start: 11 @1893 has 7 MA's), (14, 1935), (28, 2106),

Gene: Chartreuse_3 Start: 1926, Stop: 2147, Start Num: 10
Candidate Starts for Chartreuse_3:
(Start: 10 @1926 has 66 MA's), (24, 2082), (25, 2106), (28, 2142),

Gene: Che12_3 Start: 1900, Stop: 2118, Start Num: 11
Candidate Starts for Che12_3:
(Start: 10 @1897 has 66 MA's), (Start: 11 @1900 has 7 MA's), (21, 2014), (24, 2053), (28, 2113),

Gene: CloudWang3_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for CloudWang3_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Cookiedough_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Cookiedough_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: DaVinci_3 Start: 1926, Stop: 2147, Start Num: 10
Candidate Starts for DaVinci_3:
(Start: 10 @1926 has 66 MA's), (24, 2082), (25, 2106), (28, 2142),

Gene: Dorothea_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Dorothea_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: DreamTeam1_3 Start: 1890, Stop: 2111, Start Num: 10
Candidate Starts for DreamTeam1_3:
(8, 1812), (Start: 10 @1890 has 66 MA's), (14, 1935), (21, 2007), (28, 2106),

Gene: EagleEye_3 Start: 1907, Stop: 2128, Start Num: 10
Candidate Starts for EagleEye_3:
(3, 1646), (5, 1685), (Start: 10 @1907 has 66 MA's), (Start: 11 @1910 has 7 MA's), (15, 1964), (25, 2087), (28, 2123),

Gene: Elephantoon_3 Start: 1877, Stop: 2098, Start Num: 10
Candidate Starts for Elephantoon_3:
(8, 1811), (Start: 10 @1877 has 66 MA's), (15, 1934), (22, 2000), (24, 2033), (28, 2093),

Gene: EricB_3 Start: 1926, Stop: 2147, Start Num: 10
Candidate Starts for EricB_3:
(Start: 10 @1926 has 66 MA's), (24, 2082), (25, 2106), (28, 2142),

Gene: Garak_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Garak_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: GaugeLDP_3 Start: 1874, Stop: 2095, Start Num: 10
Candidate Starts for GaugeLDP_3:
(5, 1649), (8, 1808), (9, 1850), (Start: 10 @1874 has 66 MA's), (Start: 11 @1877 has 7 MA's), (12, 1895), (28, 2090),

Gene: Gladiator_3 Start: 1915, Stop: 2136, Start Num: 10
Candidate Starts for Gladiator_3:
(Start: 10 @1915 has 66 MA's), (24, 2071), (28, 2131),

Gene: GreedyLawyer_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for GreedyLawyer_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Gruunaga_3 Start: 1915, Stop: 2136, Start Num: 10
Candidate Starts for Gruunaga_3:
(Start: 10 @1915 has 66 MA's), (24, 2071), (28, 2131),

Gene: Hammer_3 Start: 1914, Stop: 2135, Start Num: 10
Candidate Starts for Hammer_3:
(Start: 10 @1914 has 66 MA's), (24, 2070), (25, 2094), (28, 2130),

Gene: Helmet_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Helmet_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Hexamo_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Hexamo_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Hoot_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Hoot_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Indra_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Indra_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: IronMan_3 Start: 1938, Stop: 2117, Start Num: 13
Candidate Starts for IronMan_3:
(Start: 10 @1896 has 66 MA's), (Start: 11 @1899 has 7 MA's), (Start: 13 @1938 has 1 MA's), (28, 2112),

Gene: Isiphiwo_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Isiphiwo_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Iwokeuplikedis_4 Start: 2149, Stop: 2367, Start Num: 11
Candidate Starts for Iwokeuplikedis_4:
(Start: 10 @2146 has 66 MA's), (Start: 11 @2149 has 7 MA's), (Start: 13 @2188 has 1 MA's), (15, 2203), (20, 2254), (21, 2263), (28, 2362),

Gene: Jaan_3 Start: 1892, Stop: 2113, Start Num: 10
Candidate Starts for Jaan_3:
(Start: 10 @1892 has 66 MA's), (Start: 11 @1895 has 7 MA's), (28, 2108),

Gene: Jeffabunny_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Jeffabunny_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: JewelBug_3 Start: 1926, Stop: 2147, Start Num: 10
Candidate Starts for JewelBug_3:

(Start: 10 @1926 has 66 MA's), (24, 2082), (25, 2106), (28, 2142),

Gene: Jordennis_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Jordennis_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Kazan_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Kazan_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Kipper29_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Kipper29_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Koko_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Koko_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Landor_3 Start: 1894, Stop: 2115, Start Num: 10
Candidate Starts for Landor_3:
(5, 1669), (Start: 10 @1894 has 66 MA's), (Start: 11 @1897 has 7 MA's), (Start: 13 @1936 has 1 MA's), (15, 1951), (28, 2110),

Gene: Lilbunny_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Lilbunny_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: LoneWolf_3 Start: 1881, Stop: 2102, Start Num: 10
Candidate Starts for LoneWolf_3:
(8, 1815), (Start: 10 @1881 has 66 MA's), (15, 1938), (20, 1989), (22, 2004), (23, 2016), (28, 2097),

Gene: Lucyedi_3 Start: 1910, Stop: 2128, Start Num: 11
Candidate Starts for Lucyedi_3:
(3, 1646), (5, 1685), (Start: 10 @1907 has 66 MA's), (Start: 11 @1910 has 7 MA's), (15, 1964), (25, 2087), (28, 2123),

Gene: Maminiaina_3 Start: 1884, Stop: 2105, Start Num: 10
Candidate Starts for Maminiaina_3:
(Start: 10 @1884 has 66 MA's), (15, 1941), (16, 1947), (22, 2007), (28, 2100),

Gene: McFly_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for McFly_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Neeharika16_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Neeharika16_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Newrala_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Newrala_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: NothingSpecial_3 Start: 1929, Stop: 2150, Start Num: 10

Candidate Starts for NothingSpecial_3:
(Start: 10 @1929 has 66 MA's), (Start: 11 @1932 has 7 MA's), (14, 1974), (28, 2145),

Gene: Odin_2 Start: 1935, Stop: 2156, Start Num: 10
Candidate Starts for Odin_2:
(2, 1653), (5, 1710), (Start: 10 @1935 has 66 MA's), (28, 2151),

Gene: PainterBoy_3 Start: 1910, Stop: 2128, Start Num: 11
Candidate Starts for PainterBoy_3:
(3, 1646), (5, 1685), (Start: 10 @1907 has 66 MA's), (Start: 11 @1910 has 7 MA's), (15, 1964), (25, 2087), (28, 2123),

Gene: Ph8s_3 Start: 1942, Stop: 2163, Start Num: 10
Candidate Starts for Ph8s_3:
(Start: 10 @1942 has 66 MA's), (Start: 11 @1945 has 7 MA's), (28, 2158),

Gene: Phaded_3 Start: 1894, Stop: 2112, Start Num: 11
Candidate Starts for Phaded_3:
(Start: 10 @1891 has 66 MA's), (Start: 11 @1894 has 7 MA's), (28, 2107),

Gene: Pmask_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Pmask_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Priamo_3 Start: 1940, Stop: 2161, Start Num: 10
Candidate Starts for Priamo_3:
(Start: 10 @1940 has 66 MA's), (24, 2096), (25, 2120), (28, 2156),

Gene: Pukovnik_3 Start: 1873, Stop: 2091, Start Num: 11
Candidate Starts for Pukovnik_3:
(Start: 10 @1870 has 66 MA's), (Start: 11 @1873 has 7 MA's), (28, 2086),

Gene: Rahalelujah_3 Start: 1884, Stop: 2105, Start Num: 10
Candidate Starts for Rahalelujah_3:
(3, 1617), (4, 1635), (8, 1815), (Start: 10 @1884 has 66 MA's), (15, 1941), (20, 1992), (28, 2100),

Gene: Rifter_3 Start: 1914, Stop: 2135, Start Num: 10
Candidate Starts for Rifter_3:
(Start: 10 @1914 has 66 MA's), (24, 2070), (28, 2130),

Gene: Roksolana_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Roksolana_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: SheaKeira_3 Start: 1905, Stop: 2126, Start Num: 10
Candidate Starts for SheaKeira_3:
(Start: 10 @1905 has 66 MA's), (15, 1962), (20, 2013), (28, 2121),

Gene: SmellyB_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for SmellyB_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: SuperAwesome_3 Start: 1925, Stop: 2146, Start Num: 10

Candidate Starts for SuperAwesome_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: SuperCallie99_3 Start: 1926, Stop: 2147, Start Num: 10
Candidate Starts for SuperCallie99_3:
(Start: 10 @1926 has 66 MA's), (24, 2082), (25, 2106), (28, 2142),

Gene: Superchunk_3 Start: 1936, Stop: 2157, Start Num: 10
Candidate Starts for Superchunk_3:
(5, 1711), (Start: 10 @1936 has 66 MA's), (28, 2152),

Gene: SwirlSquare_3 Start: 1935, Stop: 2156, Start Num: 10
Candidate Starts for SwirlSquare_3:
(2, 1653), (5, 1710), (Start: 10 @1935 has 66 MA's), (Start: 11 @1938 has 7 MA's), (17, 2001), (28, 2151),

Gene: ToneTone_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for ToneTone_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Trooper_4 Start: 2152, Stop: 2373, Start Num: 10
Candidate Starts for Trooper_4:
(1, 1708), (3, 1888), (5, 1927), (8, 2086), (Start: 10 @2152 has 66 MA's), (Start: 11 @2155 has 7 MA's), (Start: 13 @2194 has 1 MA's), (15, 2209), (20, 2260), (21, 2269), (24, 2308), (28, 2368),

Gene: Tucker_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Tucker_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Vanisoa_3 Start: 1884, Stop: 2105, Start Num: 10
Candidate Starts for Vanisoa_3:
(Start: 10 @1884 has 66 MA's), (15, 1941), (20, 1992), (27, 2094), (28, 2100),

Gene: VohminGhazi_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for VohminGhazi_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Wiks_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Wiks_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: WunderPhul_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for WunderPhul_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Yecey3_3 Start: 1883, Stop: 2104, Start Num: 10
Candidate Starts for Yecey3_3:
(3, 1619), (6, 1679), (8, 1817), (Start: 10 @1883 has 66 MA's), (Start: 13 @1925 has 1 MA's), (28, 2099),

Gene: Yokurt_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Yokurt_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Zaka_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Zaka_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),

Gene: Zulu_3 Start: 1925, Stop: 2146, Start Num: 10
Candidate Starts for Zulu_3:
(Start: 10 @1925 has 66 MA's), (24, 2081), (25, 2105), (28, 2141),