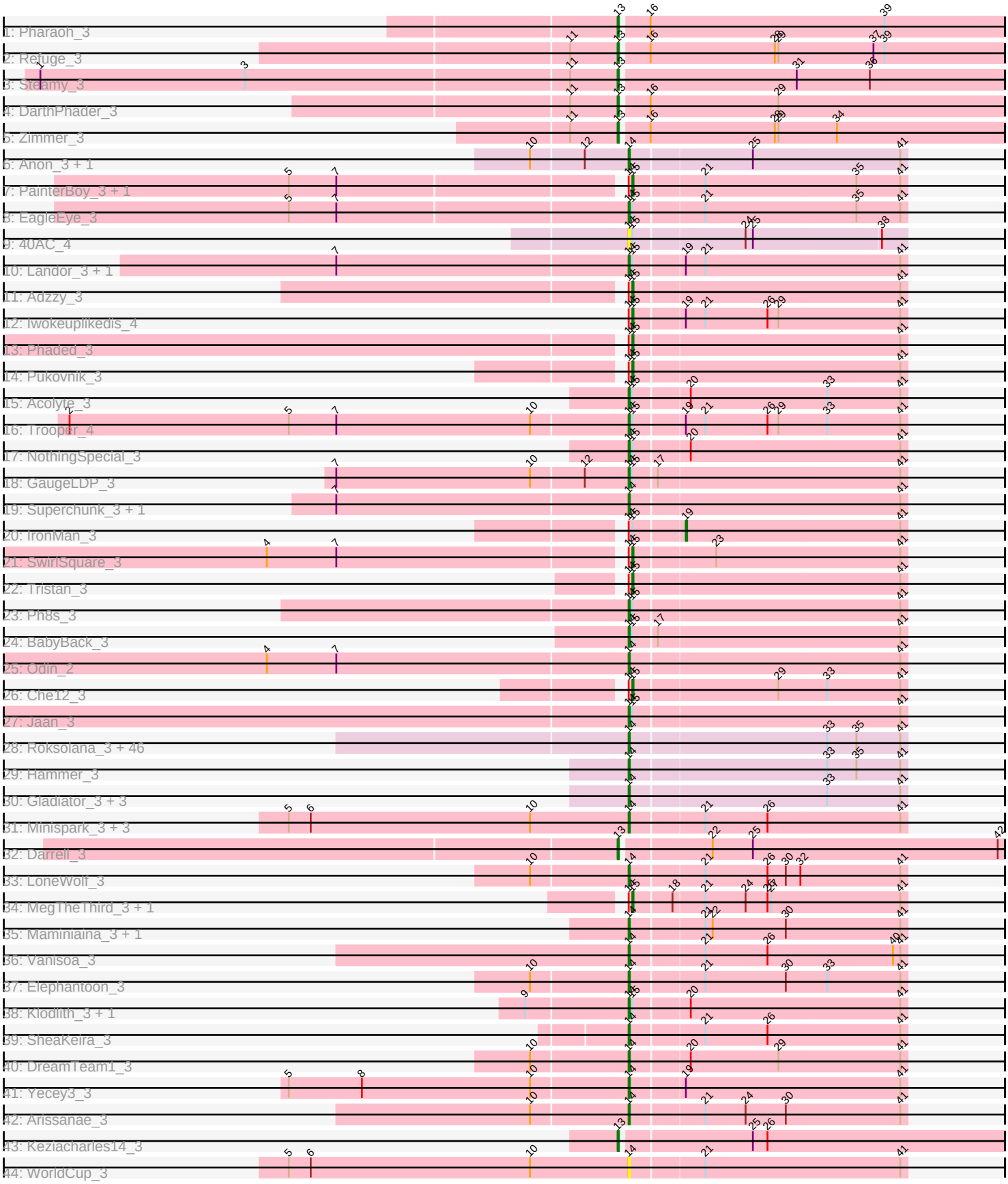
Pham 332644


1: Pharaoh_3
2: Refuge_3
3: Steamy_3
4: DarthPhader_3
5: Zimmer_3
6: Anon_3 + 1
7: PainterBoy_3 + 1
8: EagleEye_3
9: 40AC_4
10: Landor_3 + 1
11: Adzzy_3
12: Iwokeuplikedis_4
13: Phaded_3
14: Pukovnik_3
15: Acolyte_3
16: Trooper_4
17: NothingSpecial_3
18: GaugeLDP_3
19: Superchunk_3 + 1
20: IronMan_3
21: SwirlSquare_3
22: Tristan_3
23: Ph8s_3
24: BabyBack_3
25: Odin_2
26: Che12_3
27: Jaan_3
28: Roksolana_3 + 46
29: Hammer_3
30: Gladiator_3 + 3
31: Minispark_3 + 3
32: Darrell_3
33: LoneWolf_3
34: MegTheThird_3 + 1
35: Maminiaina_3 + 1
36: Vanisoa_3
37: Elephantoon_3
38: Klodlith_3 + 1
39: SheaKeira_3
40: DreamTeam1_3
41: Yecey3_3
42: Arissanae_3
43: Keziacharles14_3
44: WorldCup_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 332644 Report

This analysis was run 11/14/26 on database version 672.

Pham number 332644 has 103 members, 8 are drafts.

Phages represented in each track:
- Track 1 : Pharaoh_3
- Track 2 : Refuge_3
- Track 3 : Steamy_3
- Track 4 : DarthPhader_3
- Track 5 : Zimmer_3
- Track 6 : Anon_3, Elle_3
- Track 7 : PainterBoy_3, Lucyedi_3
- Track 8 : EagleEye_3
- Track 9 : 40AC_4
- Track 10 : Landor_3, Bactobuster_3
- Track 11 : Adzzy_3
- Track 12 : Iwokeuplikedis_4
- Track 13 : Phaded_3
- Track 14 : Pukovnik_3
- Track 15 : Acolyte_3
- Track 16 : Trooper_4
- Track 17 : NothingSpecial_3
- Track 18 : GaugeLDP_3
- Track 19 : Superchunk_3, Caraxes_3
- Track 20 : IronMan_3
- Track 21 : SwirlSquare_3
- Track 22 : Tristan_3
- Track 23 : Ph8s_3
- Track 24 : BabyBack_3
- Track 25 : Odin_2
- Track 26 : Che12_3
- Track 27 : Jaan_3
- Track 28 : Roksolana_3, BABullseye_3, Hexamo_3, Zaka_3, Koko_3, VohminGhazi_3, Zulu_3, Tucker_3, Hoot_3, BlessJoy_3, Dorothea_3, McFly_3, Jeffabunny_3, Priamo_3, ToneTone_3, SuperAwesome_3, Kazan_3, SuperCallie99_3, Newrala_3, Isiphiwo_3, SmellyB_3, Indra_3, DaVinci_3, DelvinSonDorr_3, Imbriano_3, CloudWang3_3, Candra_3, Lilbunny_3, Garak_3, GreedyLawyer_3, BennyP_3, JewelBug_3, Wiks_3, Blinn1_3, Yokurt_3, Chartreuse_3, Helmet_3, Jordennis_3, EricB_3, Temprado_3, Cookiedough_3, Kipper29_3, Pmask_3, WunderPhul_3, Polyphemus_3, Neeharika16_3, Artemis2UCLA_3
- Track 29 : Hammer_3

• Track 30 : Gladiator_3, Blue7_3, Gruunaga_3, Rifter_3
• Track 31 : Minispark_3, CogOmlette_3, Bellris_3, Rahalelujah_3
• Track 32 : Darrell_3
• Track 33 : LoneWolf_3
• Track 34 : MegTheThird_3, Celestialunch_3
• Track 35 : Maminiaina_3, BogosyJay_3
• Track 36 : Vanisoa_3
• Track 37 : Elephantoon_3
• Track 38 : Klodlith_3, Charm_3
• Track 39 : SheaKeira_3
• Track 40 : DreamTeam1_3
• Track 41 : Yecey3_3
• Track 42 : Arissanae_3
• Track 43 : Keziacharles14_3
• Track 44 : WorldCup_3

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

The start number called the most often in the published annotations is 14, it was called in 77 of the 95 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, Bellris_3, BennyP_3, BlessJoy_3, Blinn1_3, Blue7_3, BogosyJay_3, Candra_3, Caraxes_3, Charm_3, Chartreuse_3, CloudWang3_3, CogOmlette_3, Cookiedough_3, DaVinci_3, DelvinSonDorr_3, Dorothea_3, DreamTeam1_3, EagleEye_3, Elephantoon_3, Elle_3, EricB_3, Garak_3, GaugeLDP_3, Gladiator_3, GreedyLawyer_3, Gruunaga_3, Hammer_3, Helmet_3, Hexamo_3, Hoot_3, Imbriano_3, Indra_3, Isiphiwo_3, Jaan_3, Jeffabunny_3, JewelBug_3, Jordennis_3, Kazan_3, Kipper29_3, Klodlith_3, Koko_3, Landor_3, Lilbunny_3, LoneWolf_3, Maminiaina_3, McFly_3, Minispark_3, Neeharika16_3, Newrala_3, NothingSpecial_3, Odin_2, Ph8s_3, Pmask_3, Polyphemus_3, Priamo_3, Rahalelujah_3, Rifter_3, Roksolana_3, SheaKeira_3, SmellyB_3, SuperAwesome_3, SuperCallie99_3, Superchunk_3, Temprado_3, ToneTone_3, Trooper_4, Tucker_3, Vanisoa_3, VohminGhazi_3, Wiks_3, WorldCup_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, Celestialunch_3, Che12_3, IronMan_3, Iwokeuplikedis_4, Lucyedi_3, MegTheThird_3, PainterBoy_3, Phaded_3, Pukovnik_3, SwirlSquare_3, Tristan_3,

Genes that do not have the "Most Annotated" start:
• Darrell_3, DarthPhader_3, Keziacharles14_3, Pharaoh_3, Refuge_3, Steamy_3, Zimmer_3,

Summary by start number:

Start 13:
• Found in 7 of 103 (6.8%) of genes in pham
• Manual Annotations of this start: 7 of 95

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darrell_3 (A9), DarthPhader_3 (A12), Keziacharles14_3 (A9), Pharaoh_3 (A12), Refuge_3 (A12), Steamy_3 (A12), Zimmer_3 (A12),

Start 14:
• Found in 96 of 103 (93.2%) of genes in pham
• Manual Annotations of this start: 77 of 95
• Called 87.5% 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), Bellris_3 (A9), BennyP_3 (A6), BlessJoy_3 (A6), Blinn1_3 (A6), Blue7_3 (A6), BogosyJay_3 (A9), Candra_3 (A6), Caraxes_3 (A2), Charm_3 (A9), Chartreuse_3 (A6), CloudWang3_3 (A6), CogOmlette_3 (A9), Cookiedough_3 (A6), DaVinci_3 (A6), DelvinSonDorr_3 (A6), Dorothea_3 (A6), DreamTeam1_3 (A9), EagleEye_3 (A16), Elephantoon_3 (A9), Elle_3 (A15), 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), Imbriano_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), Klodlith_3 (A9), Koko_3 (A6), Landor_3 (A2), Lilbunny_3 (A6), LoneWolf_3 (A9), Maminiaina_3 (A9), McFly_3 (A6), Minispark_3 (A9), Neeharika16_3 (A6), Newrala_3 (A6), NothingSpecial_3 (A2), Odin_2 (A2), Ph8s_3 (A2), Pmask_3 (A6), Polyphemus_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), Temprado_3 (A6), ToneTone_3 (A6), Trooper_4 (A2), Tucker_3 (A6), Vanisoa_3 (A9), VohminGhazi_3 (A6), Wiks_3 (A6), WorldCup_3 (A9), WunderPhul_3 (A6), Yecey3_3 (A9), Yokurt_3 (A6), Zaka_3 (A6), Zulu_3 (A6),

Start 15:
• Found in 25 of 103 (24.3%) of genes in pham
• Manual Annotations of this start: 10 of 95
• Called 44.0% of time when present
• Phage (with cluster) where this start called: Adzzy_3 (A2), Celestialunch_3 (A9), Che12_3 (A2), Iwokeuplikedis_4 (A2), Lucyedi_3 (A16), MegTheThird_3 (A9), PainterBoy_3 (A16), Phaded_3 (A2), Pukovnik_3 (A2), SwirlSquare_3 (A2), Tristan_3 (A2),

Start 19:
• Found in 6 of 103 (5.8%) of genes in pham
• Manual Annotations of this start: 1 of 95
• Called 16.7% of time when present
• Phage (with cluster) where this start called: IronMan_3 (A2),

Summary by clusters:

There are 7 clusters represented in this pham: A15, A17, A16, A12, A2, A6, A9,

Info for manual annotations of cluster A12:
•Start number 13 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A15:
•Start number 14 was manually annotated 2 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 14 was manually annotated 1 time for cluster A16.
•Start number 15 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 14 was manually annotated 12 times for cluster A2.
•Start number 15 was manually annotated 7 times for cluster A2.
•Start number 19 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A6:
•Start number 14 was manually annotated 50 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 13 was manually annotated 2 times for cluster A9.
•Start number 14 was manually annotated 12 times for cluster A9.
•Start number 15 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: 40AC_4 Start: 2081, Stop: 2299, Start Num: 14
Candidate Starts for 40AC_4:
(Start: 14 @2081 has 77 MA's), (Start: 15 @2084 has 10 MA's), (24, 2171), (25, 2177), (38, 2279),

Gene: Acolyte_3 Start: 1904, Stop: 2125, Start Num: 14
Candidate Starts for Acolyte_3:
(Start: 14 @1904 has 77 MA's), (Start: 15 @1907 has 10 MA's), (20, 1949), (33, 2060), (41, 2120),

Gene: Adzzy_3 Start: 1945, Stop: 2163, Start Num: 15
Candidate Starts for Adzzy_3:
(Start: 14 @1942 has 77 MA's), (Start: 15 @1945 has 10 MA's), (41, 2158),

Gene: Anon_3 Start: 1964, Stop: 2185, Start Num: 14
Candidate Starts for Anon_3:
(10, 1898), (12, 1940), (Start: 14 @1964 has 77 MA's), (25, 2060), (41, 2180),

Gene: Arissanae_3 Start: 1903, Stop: 2124, Start Num: 14
Candidate Starts for Arissanae_3:
(10, 1837), (Start: 14 @1903 has 77 MA's), (21, 1960), (24, 1993), (30, 2026), (41, 2119),

Gene: Artemis2UCLA_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Artemis2UCLA_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: BABullseye_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for BABullseye_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: BabyBack_3 Start: 1878, Stop: 2099, Start Num: 14
Candidate Starts for BabyBack_3:

(Start: 14 @1878 has 77 MA's), (Start: 15 @1881 has 10 MA's), (17, 1899), (41, 2094),

Gene: Bactobuster_3 Start: 1888, Stop: 2109, Start Num: 14
Candidate Starts for Bactobuster_3:
(7, 1663), (Start: 14 @1888 has 77 MA's), (Start: 15 @1891 has 10 MA's), (Start: 19 @1930 has 1 MA's), (21, 1945), (41, 2104),

Gene: Bellris_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for Bellris_3:
(5, 1617), (6, 1635), (10, 1815), (Start: 14 @1884 has 77 MA's), (21, 1941), (26, 1992), (41, 2100),

Gene: BennyP_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for BennyP_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: BlessJoy_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for BlessJoy_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Blinn1_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Blinn1_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Blue7_3 Start: 1914, Stop: 2135, Start Num: 14
Candidate Starts for Blue7_3:
(Start: 14 @1914 has 77 MA's), (33, 2070), (41, 2130),

Gene: BogosyJay_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for BogosyJay_3:
(Start: 14 @1884 has 77 MA's), (21, 1941), (22, 1947), (30, 2007), (41, 2100),

Gene: Candra_3 Start: 1958, Stop: 2179, Start Num: 14
Candidate Starts for Candra_3:
(Start: 14 @1958 has 77 MA's), (33, 2114), (35, 2138), (41, 2174),

Gene: Caraxes_3 Start: 1936, Stop: 2157, Start Num: 14
Candidate Starts for Caraxes_3:
(7, 1711), (Start: 14 @1936 has 77 MA's), (41, 2152),

Gene: Celestialunch_3 Start: 1890, Stop: 2108, Start Num: 15
Candidate Starts for Celestialunch_3:
(Start: 14 @1887 has 77 MA's), (Start: 15 @1890 has 10 MA's), (18, 1920), (21, 1944), (24, 1977), (26, 1995), (27, 1998), (41, 2103),

Gene: Charm_3 Start: 1890, Stop: 2111, Start Num: 14
Candidate Starts for Charm_3:
(9, 1821), (Start: 14 @1890 has 77 MA's), (Start: 15 @1893 has 10 MA's), (20, 1935), (41, 2106),

Gene: Chartreuse_3 Start: 1926, Stop: 2147, Start Num: 14
Candidate Starts for Chartreuse_3:
(Start: 14 @1926 has 77 MA's), (33, 2082), (35, 2106), (41, 2142),

Gene: Che12_3 Start: 1900, Stop: 2118, Start Num: 15

Candidate Starts for Che12_3:
(Start: 14 @1897 has 77 MA's), (Start: 15 @1900 has 10 MA's), (29, 2014), (33, 2053), (41, 2113),

Gene: CloudWang3_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for CloudWang3_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: CogOmlette_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for CogOmlette_3:
(5, 1617), (6, 1635), (10, 1815), (Start: 14 @1884 has 77 MA's), (21, 1941), (26, 1992), (41, 2100),

Gene: Cookiedough_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Cookiedough_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: DaVinci_3 Start: 1926, Stop: 2147, Start Num: 14
Candidate Starts for DaVinci_3:
(Start: 14 @1926 has 77 MA's), (33, 2082), (35, 2106), (41, 2142),

Gene: Darrell_3 Start: 1912, Stop: 2220, Start Num: 13
Candidate Starts for Darrell_3:
(Start: 13 @1912 has 7 MA's), (22, 1981), (25, 2014), (42, 2215),

Gene: DarthPhader_3 Start: 1938, Stop: 2249, Start Num: 13
Candidate Starts for DarthPhader_3:
(11, 1899), (Start: 13 @1938 has 7 MA's), (16, 1959), (29, 2064),

Gene: DelvinSonDorr_3 Start: 1927, Stop: 2148, Start Num: 14
Candidate Starts for DelvinSonDorr_3:
(Start: 14 @1927 has 77 MA's), (33, 2083), (35, 2107), (41, 2143),

Gene: Dorothea_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Dorothea_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: DreamTeam1_3 Start: 1890, Stop: 2111, Start Num: 14
Candidate Starts for DreamTeam1_3:
(10, 1812), (Start: 14 @1890 has 77 MA's), (20, 1935), (29, 2007), (41, 2106),

Gene: EagleEye_3 Start: 1907, Stop: 2128, Start Num: 14
Candidate Starts for EagleEye_3:
(5, 1646), (7, 1685), (Start: 14 @1907 has 77 MA's), (Start: 15 @1910 has 10 MA's), (21, 1964), (35, 2087), (41, 2123),

Gene: Elephantoon_3 Start: 1877, Stop: 2098, Start Num: 14
Candidate Starts for Elephantoon_3:
(10, 1811), (Start: 14 @1877 has 77 MA's), (21, 1934), (30, 2000), (33, 2033), (41, 2093),

Gene: Elle_3 Start: 1923, Stop: 2144, Start Num: 14
Candidate Starts for Elle_3:
(10, 1857), (12, 1899), (Start: 14 @1923 has 77 MA's), (25, 2019), (41, 2139),

Gene: EricB_3 Start: 1926, Stop: 2147, Start Num: 14

Candidate Starts for EricB_3:
(Start: 14 @1926 has 77 MA's), (33, 2082), (35, 2106), (41, 2142),

Gene: Garak_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Garak_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: GaugeLDP_3 Start: 1874, Stop: 2095, Start Num: 14
Candidate Starts for GaugeLDP_3:
(7, 1649), (10, 1808), (12, 1850), (Start: 14 @1874 has 77 MA's), (Start: 15 @1877 has 10 MA's), (17, 1895), (41, 2090),

Gene: Gladiator_3 Start: 1915, Stop: 2136, Start Num: 14
Candidate Starts for Gladiator_3:
(Start: 14 @1915 has 77 MA's), (33, 2071), (41, 2131),

Gene: GreedyLawyer_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for GreedyLawyer_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Gruunaga_3 Start: 1915, Stop: 2136, Start Num: 14
Candidate Starts for Gruunaga_3:
(Start: 14 @1915 has 77 MA's), (33, 2071), (41, 2131),

Gene: Hammer_3 Start: 1914, Stop: 2135, Start Num: 14
Candidate Starts for Hammer_3:
(Start: 14 @1914 has 77 MA's), (33, 2070), (35, 2094), (41, 2130),

Gene: Helmet_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Helmet_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Hexamo_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Hexamo_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Hoot_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Hoot_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Imbriano_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Imbriano_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Indra_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Indra_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: IronMan_3 Start: 1938, Stop: 2117, Start Num: 19
Candidate Starts for IronMan_3:
(Start: 14 @1896 has 77 MA's), (Start: 15 @1899 has 10 MA's), (Start: 19 @1938 has 1 MA's), (41, 2112),

Gene: Isiphiwo_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Isiphiwo_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Iwokeuplikedis_4 Start: 2149, Stop: 2367, Start Num: 15
Candidate Starts for Iwokeuplikedis_4:
(Start: 14 @2146 has 77 MA's), (Start: 15 @2149 has 10 MA's), (Start: 19 @2188 has 1 MA's), (21, 2203), (26, 2254), (29, 2263), (41, 2362),

Gene: Jaan_3 Start: 1892, Stop: 2113, Start Num: 14
Candidate Starts for Jaan_3:
(Start: 14 @1892 has 77 MA's), (Start: 15 @1895 has 10 MA's), (41, 2108),

Gene: Jeffabunny_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Jeffabunny_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: JewelBug_3 Start: 1926, Stop: 2147, Start Num: 14
Candidate Starts for JewelBug_3:
(Start: 14 @1926 has 77 MA's), (33, 2082), (35, 2106), (41, 2142),

Gene: Jordennis_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Jordennis_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Kazan_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Kazan_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Keziacharles14_3 Start: 1907, Stop: 2215, Start Num: 13
Candidate Starts for Keziacharles14_3:
(Start: 13 @1907 has 7 MA's), (25, 2009), (26, 2021),

Gene: Kipper29_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Kipper29_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Klodlith_3 Start: 1890, Stop: 2111, Start Num: 14
Candidate Starts for Klodlith_3:
(9, 1821), (Start: 14 @1890 has 77 MA's), (Start: 15 @1893 has 10 MA's), (20, 1935), (41, 2106),

Gene: Koko_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Koko_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Landor_3 Start: 1894, Stop: 2115, Start Num: 14
Candidate Starts for Landor_3:
(7, 1669), (Start: 14 @1894 has 77 MA's), (Start: 15 @1897 has 10 MA's), (Start: 19 @1936 has 1 MA's), (21, 1951), (41, 2110),

Gene: Lilbunny_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Lilbunny_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: LoneWolf_3 Start: 1881, Stop: 2102, Start Num: 14
Candidate Starts for LoneWolf_3:
(10, 1815), (Start: 14 @1881 has 77 MA's), (21, 1938), (26, 1989), (30, 2004), (32, 2016), (41, 2097),

Gene: Lucyedi_3 Start: 1910, Stop: 2128, Start Num: 15
Candidate Starts for Lucyedi_3:
(5, 1646), (7, 1685), (Start: 14 @1907 has 77 MA's), (Start: 15 @1910 has 10 MA's), (21, 1964), (35, 2087), (41, 2123),

Gene: Maminiaina_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for Maminiaina_3:
(Start: 14 @1884 has 77 MA's), (21, 1941), (22, 1947), (30, 2007), (41, 2100),

Gene: McFly_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for McFly_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: MegTheThird_3 Start: 1890, Stop: 2108, Start Num: 15
Candidate Starts for MegTheThird_3:
(Start: 14 @1887 has 77 MA's), (Start: 15 @1890 has 10 MA's), (18, 1920), (21, 1944), (24, 1977), (26, 1995), (27, 1998), (41, 2103),

Gene: Minispark_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for Minispark_3:
(5, 1617), (6, 1635), (10, 1815), (Start: 14 @1884 has 77 MA's), (21, 1941), (26, 1992), (41, 2100),

Gene: Neeharika16_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Neeharika16_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Newrala_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Newrala_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: NothingSpecial_3 Start: 1929, Stop: 2150, Start Num: 14
Candidate Starts for NothingSpecial_3:
(Start: 14 @1929 has 77 MA's), (Start: 15 @1932 has 10 MA's), (20, 1974), (41, 2145),

Gene: Odin_2 Start: 1935, Stop: 2156, Start Num: 14
Candidate Starts for Odin_2:
(4, 1653), (7, 1710), (Start: 14 @1935 has 77 MA's), (41, 2151),

Gene: PainterBoy_3 Start: 1910, Stop: 2128, Start Num: 15
Candidate Starts for PainterBoy_3:
(5, 1646), (7, 1685), (Start: 14 @1907 has 77 MA's), (Start: 15 @1910 has 10 MA's), (21, 1964), (35, 2087), (41, 2123),

Gene: Ph8s_3 Start: 1942, Stop: 2163, Start Num: 14
Candidate Starts for Ph8s_3:
(Start: 14 @1942 has 77 MA's), (Start: 15 @1945 has 10 MA's), (41, 2158),

Gene: Phaded_3 Start: 1894, Stop: 2112, Start Num: 15

Candidate Starts for Phaded_3:
(Start: 14 @1891 has 77 MA's), (Start: 15 @1894 has 10 MA's), (41, 2107),

Gene: Pharaoh_3 Start: 1910, Stop: 2221, Start Num: 13
Candidate Starts for Pharaoh_3:
(Start: 13 @1910 has 7 MA's), (16, 1931), (39, 2123),

Gene: Pmask_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Pmask_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Polyphemus_3 Start: 1927, Stop: 2148, Start Num: 14
Candidate Starts for Polyphemus_3:
(Start: 14 @1927 has 77 MA's), (33, 2083), (35, 2107), (41, 2143),

Gene: Priamo_3 Start: 1940, Stop: 2161, Start Num: 14
Candidate Starts for Priamo_3:
(Start: 14 @1940 has 77 MA's), (33, 2096), (35, 2120), (41, 2156),

Gene: Pukovnik_3 Start: 1873, Stop: 2091, Start Num: 15
Candidate Starts for Pukovnik_3:
(Start: 14 @1870 has 77 MA's), (Start: 15 @1873 has 10 MA's), (41, 2086),

Gene: Rahalelujah_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for Rahalelujah_3:
(5, 1617), (6, 1635), (10, 1815), (Start: 14 @1884 has 77 MA's), (21, 1941), (26, 1992), (41, 2100),

Gene: Refuge_3 Start: 1939, Stop: 2250, Start Num: 13
Candidate Starts for Refuge_3:
(11, 1900), (Start: 13 @1939 has 7 MA's), (16, 1960), (28, 2062), (29, 2065), (37, 2143), (39, 2152),

Gene: Rifter_3 Start: 1914, Stop: 2135, Start Num: 14
Candidate Starts for Rifter_3:
(Start: 14 @1914 has 77 MA's), (33, 2070), (41, 2130),

Gene: Roksolana_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Roksolana_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: SheaKeira_3 Start: 1905, Stop: 2126, Start Num: 14
Candidate Starts for SheaKeira_3:
(Start: 14 @1905 has 77 MA's), (21, 1962), (26, 2013), (41, 2121),

Gene: SmellyB_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for SmellyB_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Steamy_3 Start: 1910, Stop: 2221, Start Num: 13
Candidate Starts for Steamy_3:
(1, 1442), (3, 1610), (11, 1871), (Start: 13 @1910 has 7 MA's), (31, 2051), (36, 2111),

Gene: SuperAwesome_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for SuperAwesome_3:

(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: SuperCallie99_3 Start: 1926, Stop: 2147, Start Num: 14
Candidate Starts for SuperCallie99_3:
(Start: 14 @1926 has 77 MA's), (33, 2082), (35, 2106), (41, 2142),

Gene: Superchunk_3 Start: 1936, Stop: 2157, Start Num: 14
Candidate Starts for Superchunk_3:
(7, 1711), (Start: 14 @1936 has 77 MA's), (41, 2152),

Gene: SwirlSquare_3 Start: 1938, Stop: 2156, Start Num: 15
Candidate Starts for SwirlSquare_3:
(4, 1653), (7, 1710), (Start: 14 @1935 has 77 MA's), (Start: 15 @1938 has 10 MA's), (23, 2001), (41, 2151),

Gene: Temprado_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Temprado_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: ToneTone_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for ToneTone_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Tristan_3 Start: 1901, Stop: 2119, Start Num: 15
Candidate Starts for Tristan_3:
(Start: 14 @1898 has 77 MA's), (Start: 15 @1901 has 10 MA's), (41, 2114),

Gene: Trooper_4 Start: 2152, Stop: 2373, Start Num: 14
Candidate Starts for Trooper_4:
(2, 1708), (5, 1888), (7, 1927), (10, 2086), (Start: 14 @2152 has 77 MA's), (Start: 15 @2155 has 10 MA's), (Start: 19 @2194 has 1 MA's), (21, 2209), (26, 2260), (29, 2269), (33, 2308), (41, 2368),

Gene: Tucker_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Tucker_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Vanisoa_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for Vanisoa_3:
(Start: 14 @1884 has 77 MA's), (21, 1941), (26, 1992), (40, 2094), (41, 2100),

Gene: VohminGhazi_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for VohminGhazi_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Wiks_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Wiks_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: WorldCup_3 Start: 1884, Stop: 2105, Start Num: 14
Candidate Starts for WorldCup_3:
(5, 1617), (6, 1635), (10, 1815), (Start: 14 @1884 has 77 MA's), (21, 1941), (41, 2100),

Gene: WunderPhul_3 Start: 1925, Stop: 2146, Start Num: 14

Candidate Starts for WunderPhul_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Yecey3_3 Start: 1883, Stop: 2104, Start Num: 14
Candidate Starts for Yecey3_3:
(5, 1619), (8, 1679), (10, 1817), (Start: 14 @1883 has 77 MA's), (Start: 19 @1925 has 1 MA's), (41, 2099),

Gene: Yokurt_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Yokurt_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Zaka_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Zaka_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),

Gene: Zimmer_3 Start: 1948, Stop: 2259, Start Num: 13
Candidate Starts for Zimmer_3:
(11, 1909), (Start: 13 @1948 has 7 MA's), (16, 1969), (28, 2071), (29, 2074), (34, 2122),

Gene: Zulu_3 Start: 1925, Stop: 2146, Start Num: 14
Candidate Starts for Zulu_3:
(Start: 14 @1925 has 77 MA's), (33, 2081), (35, 2105), (41, 2141),