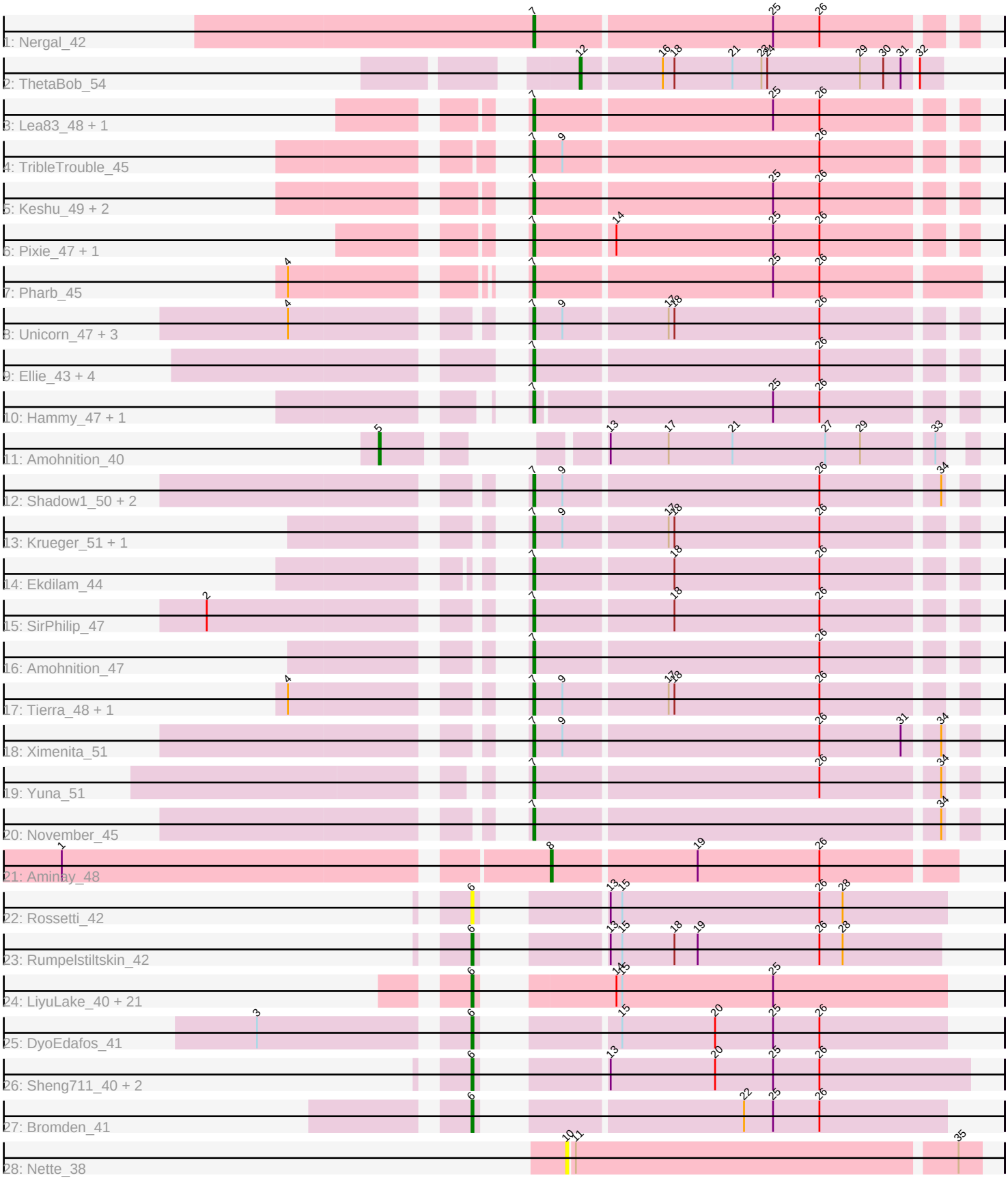
Pham 294715


1: Nergal_42
2: ThetaBob_54
3: Lea83_48 + 1
4: TribleTrouble_45
5: Keshu_49 + 2
6: Pixie_47 + 1
7: Pharb_45
8: Unicorn_47 + 3
9: Ellie_43 + 4
10: Hammy_47 + 1
11: Amohnition_40
12: Shadow1_50 + 2
13: Krueger_51 + 1
14: Ekdilam_44
15: SirPhilip_47
16: Amohnition_47
17: Tierra_48 + 1
18: Ximenita_51
19: Yuna_51
20: November_45
21: Aminay_48
22: Rossetti_42
23: Rumpelstiltskin_42
24: LiyuLake_40 + 21
25: DyoEdafos_41
26: Sheng711_40 + 2
27: Bromden_41
28: Nette_38

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 294715 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294715 has 67 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Nergal_42
- Track 2 : ThetaBob_54
- Track 3 : Lea83_48, ShedlockHolmes_48
- Track 4 : TribleTrouble_45
- Track 5 : Keshu_49, MacnCheese_49, Hurricane_48
- Track 6 : Pixie_47, TBond007_47
- Track 7 : Pharb_45
- Track 8 : Unicorn_47, Bryler_48, PhelpsODU_47, Cain_48
- Track 9 : Ellie_43, Amgine_45, Applecrisp_44, Fefferhead_45, Lavahound_46
- Track 10 : Hammy_47, DarthP_47
- Track 11 : Amohnition_40
- Track 12 : Shadow1_50, Syra333_50, Sunflower1121_51
- Track 13 : Krueger_51, Tigress9_51
- Track 14 : Ekdilam_44
- Track 15 : SirPhilip_47
- Track 16 : Amohnition_47
- Track 17 : Tierra_48, Phrank_48
- Track 18 : Ximenita_51
- Track 19 : Yuna_51
- Track 20 : November_45
- Track 21 : Aminay_48
- Track 22 : Rossetti_42
- Track 23 : Rumpelstiltskin_42
- Track 24 : LiyuLake_40, MiniLon_40, Lolly9_40, TriFive_40, MiniMac_40, DuncansLeg_40, KirDoubleO7_38, BourbonZero_39, Lumos_40, Bellis_40, Kingsolomon_40, MsGreen_40, Finnry_40, Ellson_40, Nicholas_40, Jobypre_40, Jubie_40, Moostard_40, Samty_40, Clautastrophe_40, Snenia_40, Red305_40
- Track 25 : DyoEdafos_41
- Track 26 : Sheng711_40, Douge_39, Chaser_39
- Track 27 : Bromden_41
- Track 28 : Nette_38

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

The start number called the most often in the published annotations is 7, it was called in 32 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amgine_45, Amohnition_47, Applecrisp_44, Bryler_48, Cain_48, DarthP_47, Ekdilam_44, Ellie_43, Fefferhead_45, Hammy_47, Hurricane_48, Keshu_49, Krueger_51, Lavahound_46, Lea83_48, MacnCheese_49, Nergal_42, November_45, Pharb_45, PhelpsODU_47, Phrank_48, Pixie_47, Shadow1_50, ShedlockHolmes_48, SirPhilip_47, Sunflower1121_51, Syra333_50, TBond007_47, Tierra_48, Tigress9_51, TribleTrouble_45, Unicorn_47, Ximenita_51, Yuna_51,

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

Genes that do not have the "Most Annotated" start:
• Aminay_48, Amohnition_40, Bellis_40, BourbonZero_39, Bromden_41, Chaser_39, Clautastrophe_40, Douge_39, DuncansLeg_40, DyoEdafos_41, Ellson_40, Finnry_40, Jobypre_40, Jubie_40, Kingsolomon_40, KirDoubleO7_38, LiyuLake_40, Lolly9_40, Lumos_40, MiniLon_40, MiniMac_40, Moostard_40, MsGreen_40, Nette_38, Nicholas_40, Red305_40, Rossetti_42, Rumpelstiltskin_42, Samty_40, Sheng711_40, Snenia_40, ThetaBob_54, TriFive_40,

Summary by start number:

Start 5:
• Found in 1 of 67 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amohnition_40 (K6),

Start 6:
• Found in 29 of 67 (43.3%) of genes in pham
• Manual Annotations of this start: 22 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellis_40 (L3), BourbonZero_39 (L3), Bromden_41 (L4), Chaser_39 (L4), Clautastrophe_40 (L3), Douge_39 (L4), DuncansLeg_40 (L3), DyoEdafos_41 (L4), Ellson_40 (L3), Finnry_40 (L3), Jobypre_40 (L3), Jubie_40 (L3), Kingsolomon_40 (L3), KirDoubleO7_38 (L3), LiyuLake_40 (L3), Lolly9_40 (L3), Lumos_40 (L3), MiniLon_40 (L3), MiniMac_40 (L3), Moostard_40 (L3), MsGreen_40 (L3), Nicholas_40 (L3), Red305_40 (L3), Rossetti_42 (L2), Rumpelstiltskin_42 (L2), Samty_40 (L3), Sheng711_40 (L4), Snenia_40 (L3), TriFive_40 (L3),

Start 7:
• Found in 34 of 67 (50.7%) of genes in pham
• Manual Annotations of this start: 32 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_45 (K6), Amohnition_47 (K6), Applecrisp_44 (K6), Bryler_48 (K6), Cain_48 (K6), DarthP_47 (K6), Ekdilam_44 (K6), Ellie_43 (K6), Fefferhead_45 (K6), Hammy_47 (K6), Hurricane_48 (K3), Keshu_49 (K3), Krueger_51 (K6), Lavahound_46 (K6), Lea83_48 (K3), MacnCheese_49 (K3), Nergal_42 (AG), November_45 (K6), Pharb_45 (K3), PhelpsODU_47 (K6), Phrank_48 (K6), Pixie_47 (K3), Shadow1_50 (K6), ShedlockHolmes_48 (K3),

SirPhilip_47 (K6), Sunflower1121_51 (K6), Syra333_50 (K6), TBond007_47 (K3), Tierra_48 (K6), Tigress9_51 (K6), TribleTrouble_45 (K3), Unicorn_47 (K6), Ximenita_51 (K6), Yuna_51 (K6),

Start 8:
• Found in 1 of 67 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_48 (K7),

Start 10:
• Found in 1 of 67 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nette_38 (T),

Start 12:
• Found in 1 of 67 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ThetaBob_54 (F4),

Summary by clusters:

There are 9 clusters represented in this pham: F4, AG, T, K3, L4, L2, L3, K7, K6,

Info for manual annotations of cluster AG:
•Start number 7 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster F4:
•Start number 12 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster K3:
•Start number 7 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K6:
•Start number 5 was manually annotated 1 time for cluster K6.
•Start number 7 was manually annotated 22 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 8 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster L2:
•Start number 6 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:
•Start number 6 was manually annotated 17 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 6 was manually annotated 4 times for cluster L4.

Gene Information:

Gene: Amgine_45 Start: 36475, Stop: 36687, Start Num: 7
Candidate Starts for Amgine_45:
(Start: 7 @36475 has 32 MA's), (26, 36619),

Gene: Aminay_48 Start: 36910, Stop: 37110, Start Num: 8
Candidate Starts for Aminay_48:
(1, 36673), (Start: 8 @36910 has 1 MA's), (19, 36982), (26, 37045),

Gene: Amohnition_40 Start: 32428, Stop: 32189, Start Num: 5
Candidate Starts for Amohnition_40:
(Start: 5 @32428 has 1 MA's), (13, 32362), (17, 32332), (21, 32299), (27, 32251), (29, 32233), (33, 32200),

Gene: Amohnition_47 Start: 36488, Stop: 36700, Start Num: 7
Candidate Starts for Amohnition_47:
(Start: 7 @36488 has 32 MA's), (26, 36632),

Gene: Applecrisp_44 Start: 35971, Stop: 36183, Start Num: 7
Candidate Starts for Applecrisp_44:
(Start: 7 @35971 has 32 MA's), (26, 36115),

Gene: Bellis_40 Start: 34953, Stop: 35168, Start Num: 6
Candidate Starts for Bellis_40:
(Start: 6 @34953 has 22 MA's), (14, 34998), (15, 35001), (25, 35079),

Gene: BourbonZero_39 Start: 34932, Stop: 35150, Start Num: 6
Candidate Starts for BourbonZero_39:
(Start: 6 @34932 has 22 MA's), (14, 34980), (15, 34983), (25, 35061),

Gene: Bromden_41 Start: 34169, Stop: 34384, Start Num: 6
Candidate Starts for Bromden_41:
(Start: 6 @34169 has 22 MA's), (22, 34280), (25, 34295), (26, 34319),

Gene: Bryler_48 Start: 35349, Stop: 35561, Start Num: 7
Candidate Starts for Bryler_48:
(4, 35259), (Start: 7 @35349 has 32 MA's), (9, 35364), (17, 35415), (18, 35418), (26, 35493),

Gene: Cain_48 Start: 35337, Stop: 35549, Start Num: 7
Candidate Starts for Cain_48:
(4, 35247), (Start: 7 @35337 has 32 MA's), (9, 35352), (17, 35403), (18, 35406), (26, 35481),

Gene: Chaser_39 Start: 33432, Stop: 33659, Start Num: 6
Candidate Starts for Chaser_39:
(Start: 6 @33432 has 22 MA's), (13, 33474), (20, 33528), (25, 33558), (26, 33582),

Gene: Clautastrophe_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for Clautastrophe_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: DarthP_47 Start: 36375, Stop: 36584, Start Num: 7
Candidate Starts for DarthP_47:

(Start: 7 @36375 has 32 MA's), (25, 36492), (26, 36516),

Gene: Douge_39 Start: 33370, Stop: 33597, Start Num: 6
Candidate Starts for Douge_39:
(Start: 6 @33370 has 22 MA's), (13, 33412), (20, 33466), (25, 33496), (26, 33520),

Gene: DuncansLeg_40 Start: 34969, Stop: 35187, Start Num: 6
Candidate Starts for DuncansLeg_40:
(Start: 6 @34969 has 22 MA's), (14, 35017), (15, 35020), (25, 35098),

Gene: DyoEdafos_41 Start: 33704, Stop: 33919, Start Num: 6
Candidate Starts for DyoEdafos_41:
(3, 33605), (Start: 6 @33704 has 22 MA's), (15, 33752), (20, 33800), (25, 33830), (26, 33854),

Gene: Ekdilam_44 Start: 35937, Stop: 36149, Start Num: 7
Candidate Starts for Ekdilam_44:
(Start: 7 @35937 has 32 MA's), (18, 36006), (26, 36081),

Gene: Ellie_43 Start: 35663, Stop: 35875, Start Num: 7
Candidate Starts for Ellie_43:
(Start: 7 @35663 has 32 MA's), (26, 35807),

Gene: Ellson_40 Start: 34945, Stop: 35163, Start Num: 6
Candidate Starts for Ellson_40:
(Start: 6 @34945 has 22 MA's), (14, 34993), (15, 34996), (25, 35074),

Gene: Fefferhead_45 Start: 35614, Stop: 35826, Start Num: 7
Candidate Starts for Fefferhead_45:
(Start: 7 @35614 has 32 MA's), (26, 35758),

Gene: Finnry_40 Start: 34954, Stop: 35169, Start Num: 6
Candidate Starts for Finnry_40:
(Start: 6 @34954 has 22 MA's), (14, 34999), (15, 35002), (25, 35080),

Gene: Hammy_47 Start: 36363, Stop: 36572, Start Num: 7
Candidate Starts for Hammy_47:
(Start: 7 @36363 has 32 MA's), (25, 36480), (26, 36504),

Gene: Hurricane_48 Start: 36096, Stop: 36308, Start Num: 7
Candidate Starts for Hurricane_48:
(Start: 7 @36096 has 32 MA's), (25, 36216), (26, 36240),

Gene: Jobypre_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for Jobypre_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: Jubie_40 Start: 34952, Stop: 35167, Start Num: 6
Candidate Starts for Jubie_40:
(Start: 6 @34952 has 22 MA's), (14, 34997), (15, 35000), (25, 35078),

Gene: Keshu_49 Start: 36154, Stop: 36366, Start Num: 7
Candidate Starts for Keshu_49:
(Start: 7 @36154 has 32 MA's), (25, 36274), (26, 36298),

Gene: Kingsolomon_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for Kingsolomon_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: KirDoubleO7_38 Start: 34973, Stop: 35191, Start Num: 6
Candidate Starts for KirDoubleO7_38:
(Start: 6 @34973 has 22 MA's), (14, 35021), (15, 35024), (25, 35102),

Gene: Krueger_51 Start: 36343, Stop: 36555, Start Num: 7
Candidate Starts for Krueger_51:
(Start: 7 @36343 has 32 MA's), (9, 36358), (17, 36409), (18, 36412), (26, 36487),

Gene: Lavahound_46 Start: 36596, Stop: 36808, Start Num: 7
Candidate Starts for Lavahound_46:
(Start: 7 @36596 has 32 MA's), (26, 36740),

Gene: Lea83_48 Start: 36128, Stop: 36340, Start Num: 7
Candidate Starts for Lea83_48:
(Start: 7 @36128 has 32 MA's), (25, 36248), (26, 36272),

Gene: LiyuLake_40 Start: 34935, Stop: 35153, Start Num: 6
Candidate Starts for LiyuLake_40:
(Start: 6 @34935 has 22 MA's), (14, 34983), (15, 34986), (25, 35064),

Gene: Lolly9_40 Start: 34759, Stop: 34977, Start Num: 6
Candidate Starts for Lolly9_40:
(Start: 6 @34759 has 22 MA's), (14, 34807), (15, 34810), (25, 34888),

Gene: Lumos_40 Start: 34948, Stop: 35163, Start Num: 6
Candidate Starts for Lumos_40:
(Start: 6 @34948 has 22 MA's), (14, 34993), (15, 34996), (25, 35074),

Gene: MacnCheese_49 Start: 37043, Stop: 37276, Start Num: 7
Candidate Starts for MacnCheese_49:
(Start: 7 @37043 has 32 MA's), (25, 37163), (26, 37187),

Gene: MiniLon_40 Start: 34760, Stop: 34978, Start Num: 6
Candidate Starts for MiniLon_40:
(Start: 6 @34760 has 22 MA's), (14, 34808), (15, 34811), (25, 34889),

Gene: MiniMac_40 Start: 34757, Stop: 34975, Start Num: 6
Candidate Starts for MiniMac_40:
(Start: 6 @34757 has 22 MA's), (14, 34805), (15, 34808), (25, 34886),

Gene: Moostard_40 Start: 34953, Stop: 35168, Start Num: 6
Candidate Starts for Moostard_40:
(Start: 6 @34953 has 22 MA's), (14, 34998), (15, 35001), (25, 35079),

Gene: MsGreen_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for MsGreen_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: Nergal_42 Start: 34081, Stop: 34293, Start Num: 7
Candidate Starts for Nergal_42:
(Start: 7 @34081 has 32 MA's), (25, 34201), (26, 34225),

Gene: Nette_38 Start: 29858, Stop: 30064, Start Num: 10
Candidate Starts for Nette_38:
(10, 29858), (11, 29861), (35, 30053),

Gene: Nicholas_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for Nicholas_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: November_45 Start: 36096, Stop: 36308, Start Num: 7
Candidate Starts for November_45:
(Start: 7 @36096 has 32 MA's), (34, 36297),

Gene: Pharb_45 Start: 34846, Stop: 35067, Start Num: 7
Candidate Starts for Pharb_45:
(4, 34756), (Start: 7 @34846 has 32 MA's), (25, 34966), (26, 34990),

Gene: PhelpsODU_47 Start: 35370, Stop: 35582, Start Num: 7
Candidate Starts for PhelpsODU_47:
(4, 35280), (Start: 7 @35370 has 32 MA's), (9, 35385), (17, 35436), (18, 35439), (26, 35514),

Gene: Phrank_48 Start: 35327, Stop: 35539, Start Num: 7
Candidate Starts for Phrank_48:
(4, 35237), (Start: 7 @35327 has 32 MA's), (9, 35342), (17, 35393), (18, 35396), (26, 35471),

Gene: Pixie_47 Start: 35607, Stop: 35819, Start Num: 7
Candidate Starts for Pixie_47:
(Start: 7 @35607 has 32 MA's), (14, 35646), (25, 35727), (26, 35751),

Gene: Red305_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for Red305_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: Rossetti_42 Start: 34961, Stop: 35176, Start Num: 6
Candidate Starts for Rossetti_42:
(Start: 6 @34961 has 22 MA's), (13, 35003), (15, 35009), (26, 35111), (28, 35123),

Gene: Rumpelstiltskin_42 Start: 34961, Stop: 35173, Start Num: 6
Candidate Starts for Rumpelstiltskin_42:
(Start: 6 @34961 has 22 MA's), (13, 35003), (15, 35009), (18, 35036), (19, 35048), (26, 35111), (28, 35123),

Gene: Samty_40 Start: 34952, Stop: 35167, Start Num: 6
Candidate Starts for Samty_40:
(Start: 6 @34952 has 22 MA's), (14, 34997), (15, 35000), (25, 35078),

Gene: Shadow1_50 Start: 36488, Stop: 36700, Start Num: 7
Candidate Starts for Shadow1_50:
(Start: 7 @36488 has 32 MA's), (9, 36503), (26, 36632), (34, 36689),

Gene: ShedlockHolmes_48 Start: 36132, Stop: 36344, Start Num: 7
Candidate Starts for ShedlockHolmes_48:
(Start: 7 @36132 has 32 MA's), (25, 36252), (26, 36276),

Gene: Sheng711_40 Start: 33476, Stop: 33703, Start Num: 6
Candidate Starts for Sheng711_40:
(Start: 6 @33476 has 22 MA's), (13, 33518), (20, 33572), (25, 33602), (26, 33626),

Gene: SirPhilip_47 Start: 36707, Stop: 36919, Start Num: 7
Candidate Starts for SirPhilip_47:
(2, 36575), (Start: 7 @36707 has 32 MA's), (18, 36776), (26, 36851),

Gene: Snenia_40 Start: 34952, Stop: 35167, Start Num: 6
Candidate Starts for Snenia_40:
(Start: 6 @34952 has 22 MA's), (14, 34997), (15, 35000), (25, 35078),

Gene: Sunflower1121_51 Start: 36589, Stop: 36801, Start Num: 7
Candidate Starts for Sunflower1121_51:
(Start: 7 @36589 has 32 MA's), (9, 36604), (26, 36733), (34, 36790),

Gene: Syra333_50 Start: 36256, Stop: 36468, Start Num: 7
Candidate Starts for Syra333_50:
(Start: 7 @36256 has 32 MA's), (9, 36271), (26, 36400), (34, 36457),

Gene: TBond007_47 Start: 35606, Stop: 35818, Start Num: 7
Candidate Starts for TBond007_47:
(Start: 7 @35606 has 32 MA's), (14, 35645), (25, 35726), (26, 35750),

Gene: ThetaBob_54 Start: 36886, Stop: 37065, Start Num: 12
Candidate Starts for ThetaBob_54:
(Start: 12 @36886 has 1 MA's), (16, 36925), (18, 36931), (21, 36961), (23, 36976), (24, 36979), (29, 37027), (30, 37039), (31, 37048), (32, 37054),

Gene: Tierra_48 Start: 36138, Stop: 36350, Start Num: 7
Candidate Starts for Tierra_48:
(4, 36048), (Start: 7 @36138 has 32 MA's), (9, 36153), (17, 36204), (18, 36207), (26, 36282),

Gene: Tigress9_51 Start: 36343, Stop: 36555, Start Num: 7
Candidate Starts for Tigress9_51:
(Start: 7 @36343 has 32 MA's), (9, 36358), (17, 36409), (18, 36412), (26, 36487),

Gene: TriFive_40 Start: 34951, Stop: 35166, Start Num: 6
Candidate Starts for TriFive_40:
(Start: 6 @34951 has 22 MA's), (14, 34996), (15, 34999), (25, 35077),

Gene: TribleTrouble_45 Start: 35497, Stop: 35709, Start Num: 7
Candidate Starts for TribleTrouble_45:
(Start: 7 @35497 has 32 MA's), (9, 35512), (26, 35641),

Gene: Unicorn_47 Start: 35370, Stop: 35582, Start Num: 7
Candidate Starts for Unicorn_47:
(4, 35280), (Start: 7 @35370 has 32 MA's), (9, 35385), (17, 35436), (18, 35439), (26, 35514),

Gene: Ximenita_51 Start: 36442, Stop: 36654, Start Num: 7
Candidate Starts for Ximenita_51:
(Start: 7 @36442 has 32 MA's), (9, 36457), (26, 36586), (31, 36628), (34, 36643),

Gene: Yuna_51 Start: 37201, Stop: 37413, Start Num: 7
Candidate Starts for Yuna_51:
(Start: 7 @37201 has 32 MA's), (26, 37345), (34, 37402),