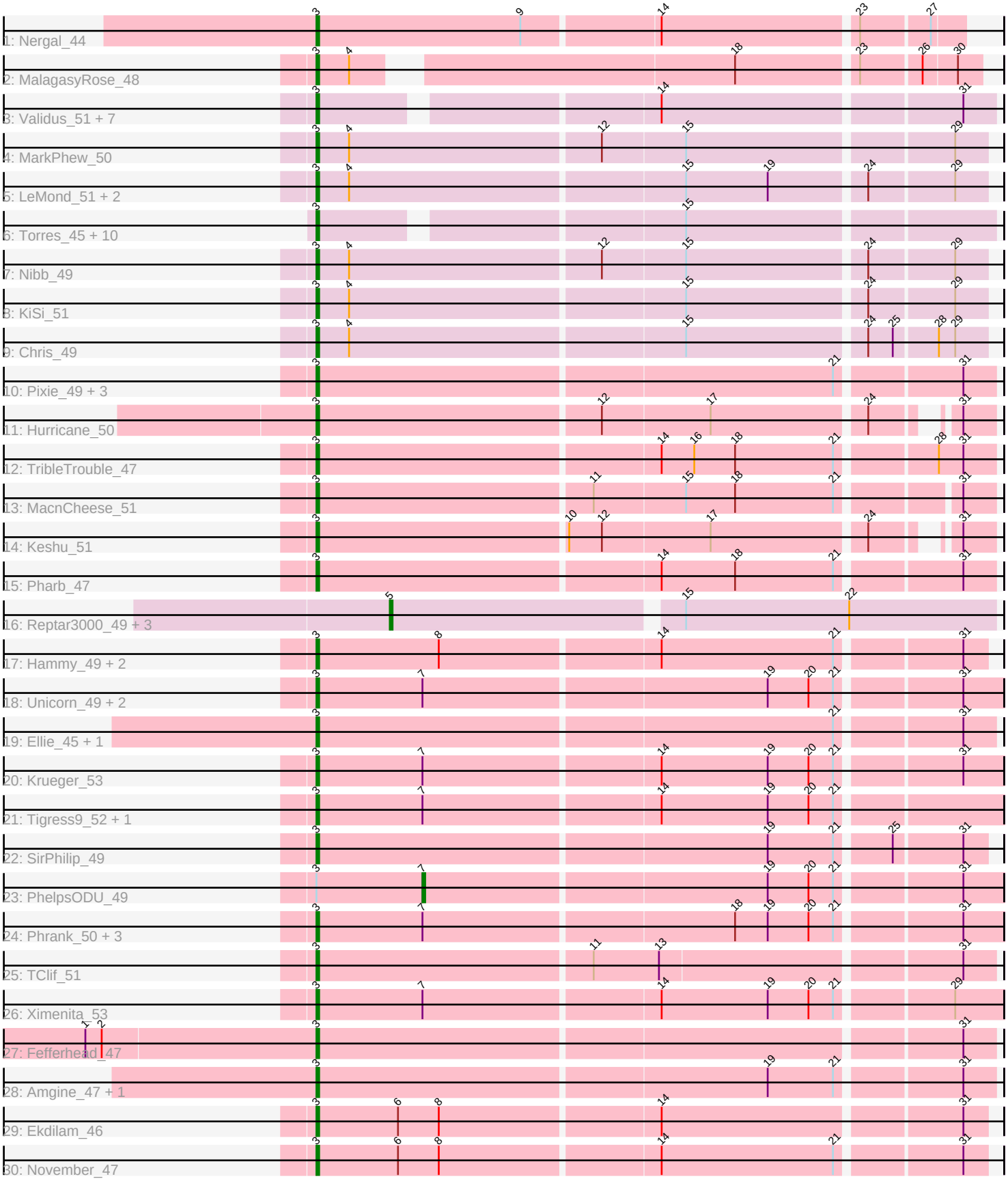
Pham 336745


1: Nergal_44
2: MalagasyRose_48
3: Validus_51 + 7
4: MarkPhew_50
5: LeMond_51 + 2
6: Torres_45 + 10
7: Nibb_49
8: KiSi_51
9: Chris_49
10: Pixie_49 + 3
11: Hurricane_50
12: TribleTrouble_47
13: MacnCheese_51
14: Keshu_51
15: Pharb_47
16: Reptar3000_49 + 3
17: Hammy_49 + 2
18: Unicorn_49 + 2
19: Ellie_45 + 1
20: Krueger_53
21: Tigress9_52 + 1
22: SirPhilip_49
23: PhelpsODU_49
24: Phrank_50 + 3
25: TClif_51
26: Ximenita_53
27: Fefferhead_47
28: Amgine_47 + 1
29: Ekdilam_46
30: November_47

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 336745 Report

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

Pham number 336745 has 65 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Nergal_44
• Track 2 : MalagasyRose_48
• Track 3 : Validus_51, McMater_49, Richo_49, Chavito_50, Dartin_49, Shaobing_49, Peanam_49, Niklas_49
• Track 4 : MarkPhew_50
• Track 5 : LeMond_51, Scarlett_51, Oscar_51
• Track 6 : Torres_45, Nikao_45, Teejan_44, Biglebops_42, LilPharaoh_42, Nutello_42, Trice_42, Enkosi_44, SgtBeansprout_42, Mdavu_43, Amelie_42
• Track 7 : Nibb_49
• Track 8 : KiSi_51
• Track 9 : Chris_49
• Track 10 : Pixie_49, Lea83_50, ShedlockHolmes_50, Yuna_53
• Track 11 : Hurricane_50
• Track 12 : TribleTrouble_47
• Track 13 : MacnCheese_51
• Track 14 : Keshu_51
• Track 15 : Pharb_47
• Track 16 : Reptar3000_49, MissDaisy_49, Bobquesha_53, Patt_48
• Track 17 : Hammy_49, Amohnition_49, DarthP_49
• Track 18 : Unicorn_49, Shadow1_52, Sunflower1121_53
• Track 19 : Ellie_45, Applecrisp_46
• Track 20 : Krueger_53
• Track 21 : Tigress9_52, Syra333_52
• Track 22 : SirPhilip_49
• Track 23 : PhelpsODU_49
• Track 24 : Phrank_50, Bryler_50, Cain_50, Tierra_50
• Track 25 : TClif_51
• Track 26 : Ximenita_53
• Track 27 : Fefferhead_47
• Track 28 : Amgine_47, Lavahound_46
• Track 29 : Ekdilam_46
• Track 30 : November_47

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

The start number called the most often in the published annotations is 3, it was called in 57 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelie_42, Amgine_47, Amohnition_49, Applecrisp_46, Biglebops_42, Bryler_50, Cain_50, Chavito_50, Chris_49, DarthP_49, Dartin_49, Ekdilam_46, Ellie_45, Enkosi_44, Fefferhead_47, Hammy_49, Hurricane_50, Keshu_51, KiSi_51, Krueger_53, Lavahound_46, LeMond_51, Lea83_50, LilPharaoh_42, MacnCheese_51, MalagasyRose_48, MarkPhew_50, McMater_49, Mdavu_43, Nergal_44, Nibb_49, Nikao_45, Niklas_49, November_47, Nutello_42, Oscar_51, Peanam_49, Pharb_47, Phrank_50, Pixie_49, Richo_49, Scarlett_51, SgtBeansprout_42, Shadow1_52, Shaobing_49, ShedlockHolmes_50, SirPhilip_49, Sunflower1121_53, Syra333_52, TClif_51, Teejan_44, Tierra_50, Tigress9_52, Torres_45, TribleTrouble_47, Trice_42, Unicorn_49, Validus_51, Ximenita_53, Yuna_53,

Genes that have the "Most Annotated" start but do not call it:
• PhelpsODU_49,

Genes that do not have the "Most Annotated" start:
• Bobquesha_53, MissDaisy_49, Patt_48, Reptar3000_49,

Summary by start number:

Start 3:
• Found in 61 of 65 (93.8%) of genes in pham
• Manual Annotations of this start: 57 of 61
• Called 98.4% of time when present
• Phage (with cluster) where this start called: Amelie_42 (K1), Amgine_47 (K6), Amohnition_49 (K6), Applecrisp_46 (K6), Biglebops_42 (K1), Bryler_50 (K6), Cain_50 (K6), Chavito_50 (K1), Chris_49 (K1), DarthP_49 (K6), Dartin_49 (K1), Ekdilam_46 (K6), Ellie_45 (K6), Enkosi_44 (K1), Fefferhead_47 (K6), Hammy_49 (K6), Hurricane_50 (K3), Keshu_51 (K3), KiSi_51 (K1), Krueger_53 (K6), Lavahound_46 (K6), LeMond_51 (K1), Lea83_50 (K3), LilPharaoh_42 (K1), MacnCheese_51 (K3), MalagasyRose_48 (AG), MarkPhew_50 (K1), McMater_49 (K1), Mdavu_43 (K1), Nergal_44 (AG), Nibb_49 (K1), Nikao_45 (K1), Niklas_49 (K1), November_47 (K6), Nutello_42 (K1), Oscar_51 (K1), Peanam_49 (K1), Pharb_47 (K3), Phrank_50 (K6), Pixie_49 (K3), Richo_49 (K1), Scarlett_51 (K1), SgtBeansprout_42 (K1), Shadow1_52 (K6), Shaobing_49 (K1), ShedlockHolmes_50 (K3), SirPhilip_49 (K6), Sunflower1121_53 (K6), Syra333_52 (K6), TClif_51 (K6), Teejan_44 (K1), Tierra_50 (K6), Tigress9_52 (K6), Torres_45 (K1), TribleTrouble_47 (K3), Trice_42 (K1), Unicorn_49 (K6), Validus_51 (K1), Ximenita_53 (K6), Yuna_53 (K6),

Start 5:
• Found in 4 of 65 (6.2%) of genes in pham
• Manual Annotations of this start: 3 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bobquesha_53 (K4), MissDaisy_49 (K4), Patt_48 (K4), Reptar3000_49 (K4),

Start 7:
• Found in 12 of 65 (18.5%) of genes in pham

• Manual Annotations of this start: 1 of 61
• Called 8.3% of time when present
• Phage (with cluster) where this start called: PhelpsODU_49 (K6),

Summary by clusters:

There are 5 clusters represented in this pham: K3, K1, K6, AG, K4,

Info for manual annotations of cluster AG:
•Start number 3 was manually annotated 2 times for cluster AG.

Info for manual annotations of cluster K1:
•Start number 3 was manually annotated 23 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 3 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 5 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K6:
•Start number 3 was manually annotated 24 times for cluster K6.
•Start number 7 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: Amelie_42 Start: 35625, Stop: 35855, Start Num: 3
Candidate Starts for Amelie_42:
(Start: 3 @35625 has 57 MA's), (15, 35748),

Gene: Amgine_47 Start: 37114, Stop: 37353, Start Num: 3
Candidate Starts for Amgine_47:
(Start: 3 @37114 has 57 MA's), (19, 37276), (21, 37300), (31, 37342),

Gene: Amohnition_49 Start: 37124, Stop: 37360, Start Num: 3
Candidate Starts for Amohnition_49:
(Start: 3 @37124 has 57 MA's), (8, 37169), (14, 37247), (21, 37310), (31, 37352),

Gene: Applecrisp_46 Start: 36610, Stop: 36849, Start Num: 3
Candidate Starts for Applecrisp_46:
(Start: 3 @36610 has 57 MA's), (21, 36796), (31, 36838),

Gene: Biglebops_42 Start: 35625, Stop: 35855, Start Num: 3
Candidate Starts for Biglebops_42:
(Start: 3 @35625 has 57 MA's), (15, 35748),

Gene: Bobquesha_53 Start: 36283, Stop: 36498, Start Num: 5
Candidate Starts for Bobquesha_53:
(Start: 5 @36283 has 3 MA's), (15, 36385), (22, 36445),

Gene: Bryler_50 Start: 35931, Stop: 36173, Start Num: 3

Candidate Starts for Bryler_50:
(Start: 3 @35931 has 57 MA's), (Start: 7 @35970 has 1 MA's), (18, 36081), (19, 36093), (20, 36108), (21, 36117), (31, 36159),

Gene: Cain_50 Start: 35919, Stop: 36161, Start Num: 3
Candidate Starts for Cain_50:
(Start: 3 @35919 has 57 MA's), (Start: 7 @35958 has 1 MA's), (18, 36069), (19, 36081), (20, 36096), (21, 36105), (31, 36147),

Gene: Chavito_50 Start: 37532, Stop: 37762, Start Num: 3
Candidate Starts for Chavito_50:
(Start: 3 @37532 has 57 MA's), (14, 37646), (31, 37751),

Gene: Chris_49 Start: 36985, Stop: 37221, Start Num: 3
Candidate Starts for Chris_49:
(Start: 3 @36985 has 57 MA's), (4, 36997), (15, 37117), (24, 37180), (25, 37189), (28, 37204), (29, 37210),

Gene: DarthP_49 Start: 37008, Stop: 37244, Start Num: 3
Candidate Starts for DarthP_49:
(Start: 3 @37008 has 57 MA's), (8, 37053), (14, 37131), (21, 37194), (31, 37236),

Gene: Dartin_49 Start: 36870, Stop: 37100, Start Num: 3
Candidate Starts for Dartin_49:
(Start: 3 @36870 has 57 MA's), (14, 36984), (31, 37089),

Gene: Ekdilam_46 Start: 36552, Stop: 36788, Start Num: 3
Candidate Starts for Ekdilam_46:
(Start: 3 @36552 has 57 MA's), (6, 36582), (8, 36597), (14, 36675), (31, 36780),

Gene: Ellie_45 Start: 36302, Stop: 36541, Start Num: 3
Candidate Starts for Ellie_45:
(Start: 3 @36302 has 57 MA's), (21, 36488), (31, 36530),

Gene: Enkosi_44 Start: 38238, Stop: 38468, Start Num: 3
Candidate Starts for Enkosi_44:
(Start: 3 @38238 has 57 MA's), (15, 38361),

Gene: Fefferhead_47 Start: 36252, Stop: 36491, Start Num: 3
Candidate Starts for Fefferhead_47:
(1, 36168), (2, 36174), (Start: 3 @36252 has 57 MA's), (31, 36480),

Gene: Hammy_49 Start: 36996, Stop: 37232, Start Num: 3
Candidate Starts for Hammy_49:
(Start: 3 @36996 has 57 MA's), (8, 37041), (14, 37119), (21, 37182), (31, 37224),

Gene: Hurricane_50 Start: 36762, Stop: 36989, Start Num: 3
Candidate Starts for Hurricane_50:
(Start: 3 @36762 has 57 MA's), (12, 36864), (17, 36903), (24, 36957), (31, 36978),

Gene: Keshu_51 Start: 36829, Stop: 37056, Start Num: 3
Candidate Starts for Keshu_51:
(Start: 3 @36829 has 57 MA's), (10, 36919), (12, 36931), (17, 36970), (24, 37024), (31, 37045),

Gene: KiSi_51 Start: 37368, Stop: 37604, Start Num: 3
Candidate Starts for KiSi_51:
(Start: 3 @37368 has 57 MA's), (4, 37380), (15, 37500), (24, 37563), (29, 37593),

Gene: Krueger_53 Start: 36925, Stop: 37167, Start Num: 3
Candidate Starts for Krueger_53:
(Start: 3 @36925 has 57 MA's), (Start: 7 @36964 has 1 MA's), (14, 37048), (19, 37087), (20, 37102), (21, 37111), (31, 37153),

Gene: Lavahound_46 Start: 37235, Stop: 37474, Start Num: 3
Candidate Starts for Lavahound_46:
(Start: 3 @37235 has 57 MA's), (19, 37397), (21, 37421), (31, 37463),

Gene: LeMond_51 Start: 37352, Stop: 37588, Start Num: 3
Candidate Starts for LeMond_51:
(Start: 3 @37352 has 57 MA's), (4, 37364), (15, 37484), (19, 37514), (24, 37547), (29, 37577),

Gene: Lea83_50 Start: 36803, Stop: 37042, Start Num: 3
Candidate Starts for Lea83_50:
(Start: 3 @36803 has 57 MA's), (21, 36989), (31, 37031),

Gene: LilPharaoh_42 Start: 35353, Stop: 35583, Start Num: 3
Candidate Starts for LilPharaoh_42:
(Start: 3 @35353 has 57 MA's), (15, 35476),

Gene: MacnCheese_51 Start: 37711, Stop: 37947, Start Num: 3
Candidate Starts for MacnCheese_51:
(Start: 3 @37711 has 57 MA's), (11, 37810), (15, 37843), (18, 37861), (21, 37897), (31, 37936),

Gene: MalagasyRose_48 Start: 34740, Stop: 34961, Start Num: 3
Candidate Starts for MalagasyRose_48:
(Start: 3 @34740 has 57 MA's), (4, 34752), (18, 34878), (23, 34920), (26, 34941), (30, 34953),

Gene: MarkPhew_50 Start: 36817, Stop: 37053, Start Num: 3
Candidate Starts for MarkPhew_50:
(Start: 3 @36817 has 57 MA's), (4, 36829), (12, 36919), (15, 36949), (29, 37042),

Gene: McMater_49 Start: 36870, Stop: 37100, Start Num: 3
Candidate Starts for McMater_49:
(Start: 3 @36870 has 57 MA's), (14, 36984), (31, 37089),

Gene: Mdavu_43 Start: 35614, Stop: 35844, Start Num: 3
Candidate Starts for Mdavu_43:
(Start: 3 @35614 has 57 MA's), (15, 35737),

Gene: MissDaisy_49 Start: 36298, Stop: 36513, Start Num: 5
Candidate Starts for MissDaisy_49:
(Start: 5 @36298 has 3 MA's), (15, 36400), (22, 36460),

Gene: Nergal_44 Start: 34720, Stop: 34947, Start Num: 3
Candidate Starts for Nergal_44:
(Start: 3 @34720 has 57 MA's), (9, 34795), (14, 34843), (23, 34912), (27, 34936),

Gene: Nibb_49 Start: 36506, Stop: 36742, Start Num: 3
Candidate Starts for Nibb_49:
(Start: 3 @36506 has 57 MA's), (4, 36518), (12, 36608), (15, 36638), (24, 36701), (29, 36731),

Gene: Nikao_45 Start: 38238, Stop: 38468, Start Num: 3
Candidate Starts for Nikao_45:
(Start: 3 @38238 has 57 MA's), (15, 38361),

Gene: Niklas_49 Start: 36931, Stop: 37161, Start Num: 3
Candidate Starts for Niklas_49:
(Start: 3 @36931 has 57 MA's), (14, 37045), (31, 37150),

Gene: November_47 Start: 36759, Stop: 36995, Start Num: 3
Candidate Starts for November_47:
(Start: 3 @36759 has 57 MA's), (6, 36789), (8, 36804), (14, 36882), (21, 36945), (31, 36987),

Gene: Nutello_42 Start: 35625, Stop: 35855, Start Num: 3
Candidate Starts for Nutello_42:
(Start: 3 @35625 has 57 MA's), (15, 35748),

Gene: Oscar_51 Start: 37254, Stop: 37490, Start Num: 3
Candidate Starts for Oscar_51:
(Start: 3 @37254 has 57 MA's), (4, 37266), (15, 37386), (19, 37416), (24, 37449), (29, 37479),

Gene: Patt_48 Start: 36022, Stop: 36237, Start Num: 5
Candidate Starts for Patt_48:
(Start: 5 @36022 has 3 MA's), (15, 36124), (22, 36184),

Gene: Peanam_49 Start: 36889, Stop: 37119, Start Num: 3
Candidate Starts for Peanam_49:
(Start: 3 @36889 has 57 MA's), (14, 37003), (31, 37108),

Gene: Pharb_47 Start: 35513, Stop: 35752, Start Num: 3
Candidate Starts for Pharb_47:
(Start: 3 @35513 has 57 MA's), (14, 35636), (18, 35663), (21, 35699), (31, 35741),

Gene: PhelpsODU_49 Start: 35991, Stop: 36194, Start Num: 7
Candidate Starts for PhelpsODU_49:
(Start: 3 @35952 has 57 MA's), (Start: 7 @35991 has 1 MA's), (19, 36114), (20, 36129), (21, 36138), (31, 36180),

Gene: Phrank_50 Start: 35909, Stop: 36151, Start Num: 3
Candidate Starts for Phrank_50:
(Start: 3 @35909 has 57 MA's), (Start: 7 @35948 has 1 MA's), (18, 36059), (19, 36071), (20, 36086), (21, 36095), (31, 36137),

Gene: Pixie_49 Start: 36282, Stop: 36521, Start Num: 3
Candidate Starts for Pixie_49:
(Start: 3 @36282 has 57 MA's), (21, 36468), (31, 36510),

Gene: Reptar3000_49 Start: 36010, Stop: 36225, Start Num: 5
Candidate Starts for Reptar3000_49:

(Start: 5 @36010 has 3 MA's), (15, 36112), (22, 36172),

Gene: Richo_49 Start: 36870, Stop: 37100, Start Num: 3
Candidate Starts for Richo_49:
(Start: 3 @36870 has 57 MA's), (14, 36984), (31, 37089),

Gene: Scarlett_51 Start: 37246, Stop: 37482, Start Num: 3
Candidate Starts for Scarlett_51:
(Start: 3 @37246 has 57 MA's), (4, 37258), (15, 37378), (19, 37408), (24, 37441), (29, 37471),

Gene: SgtBeansprout_42 Start: 35625, Stop: 35855, Start Num: 3
Candidate Starts for SgtBeansprout_42:
(Start: 3 @35625 has 57 MA's), (15, 35748),

Gene: Shadow1_52 Start: 37070, Stop: 37312, Start Num: 3
Candidate Starts for Shadow1_52:
(Start: 3 @37070 has 57 MA's), (Start: 7 @37109 has 1 MA's), (19, 37232), (20, 37247), (21, 37256), (31, 37298),

Gene: Shaobing_49 Start: 36907, Stop: 37137, Start Num: 3
Candidate Starts for Shaobing_49:
(Start: 3 @36907 has 57 MA's), (14, 37021), (31, 37126),

Gene: ShedlockHolmes_50 Start: 36807, Stop: 37046, Start Num: 3
Candidate Starts for ShedlockHolmes_50:
(Start: 3 @36807 has 57 MA's), (21, 36993), (31, 37035),

Gene: SirPhilip_49 Start: 37339, Stop: 37575, Start Num: 3
Candidate Starts for SirPhilip_49:
(Start: 3 @37339 has 57 MA's), (19, 37501), (21, 37525), (25, 37543), (31, 37567),

Gene: Sunflower1121_53 Start: 37171, Stop: 37413, Start Num: 3
Candidate Starts for Sunflower1121_53:
(Start: 3 @37171 has 57 MA's), (Start: 7 @37210 has 1 MA's), (19, 37333), (20, 37348), (21, 37357), (31, 37399),

Gene: Syra333_52 Start: 36835, Stop: 37077, Start Num: 3
Candidate Starts for Syra333_52:
(Start: 3 @36835 has 57 MA's), (Start: 7 @36874 has 1 MA's), (14, 36958), (19, 36997), (20, 37012), (21, 37021),

Gene: TClif_51 Start: 37232, Stop: 37471, Start Num: 3
Candidate Starts for TClif_51:
(Start: 3 @37232 has 57 MA's), (11, 37331), (13, 37355), (31, 37460),

Gene: Teejan_44 Start: 38238, Stop: 38468, Start Num: 3
Candidate Starts for Teejan_44:
(Start: 3 @38238 has 57 MA's), (15, 38361),

Gene: Tierra_50 Start: 36720, Stop: 36962, Start Num: 3
Candidate Starts for Tierra_50:
(Start: 3 @36720 has 57 MA's), (Start: 7 @36759 has 1 MA's), (18, 36870), (19, 36882), (20, 36897), (21, 36906), (31, 36948),

Gene: Tigress9_52 Start: 36925, Stop: 37167, Start Num: 3
Candidate Starts for Tigress9_52:
(Start: 3 @36925 has 57 MA's), (Start: 7 @36964 has 1 MA's), (14, 37048), (19, 37087), (20, 37102), (21, 37111),

Gene: Torres_45 Start: 38239, Stop: 38469, Start Num: 3
Candidate Starts for Torres_45:
(Start: 3 @38239 has 57 MA's), (15, 38362),

Gene: TribleTrouble_47 Start: 36163, Stop: 36402, Start Num: 3
Candidate Starts for TribleTrouble_47:
(Start: 3 @36163 has 57 MA's), (14, 36286), (16, 36298), (18, 36313), (21, 36349), (28, 36382), (31, 36391),

Gene: Trice_42 Start: 35626, Stop: 35856, Start Num: 3
Candidate Starts for Trice_42:
(Start: 3 @35626 has 57 MA's), (15, 35749),

Gene: Unicorn_49 Start: 35952, Stop: 36194, Start Num: 3
Candidate Starts for Unicorn_49:
(Start: 3 @35952 has 57 MA's), (Start: 7 @35991 has 1 MA's), (19, 36114), (20, 36129), (21, 36138), (31, 36180),

Gene: Validus_51 Start: 36951, Stop: 37181, Start Num: 3
Candidate Starts for Validus_51:
(Start: 3 @36951 has 57 MA's), (14, 37065), (31, 37170),

Gene: Ximenita_53 Start: 37024, Stop: 37266, Start Num: 3
Candidate Starts for Ximenita_53:
(Start: 3 @37024 has 57 MA's), (Start: 7 @37063 has 1 MA's), (14, 37147), (19, 37186), (20, 37201), (21, 37210), (29, 37249),

Gene: Yuna_53 Start: 37811, Stop: 38050, Start Num: 3
Candidate Starts for Yuna_53:
(Start: 3 @37811 has 57 MA's), (21, 37997), (31, 38039),