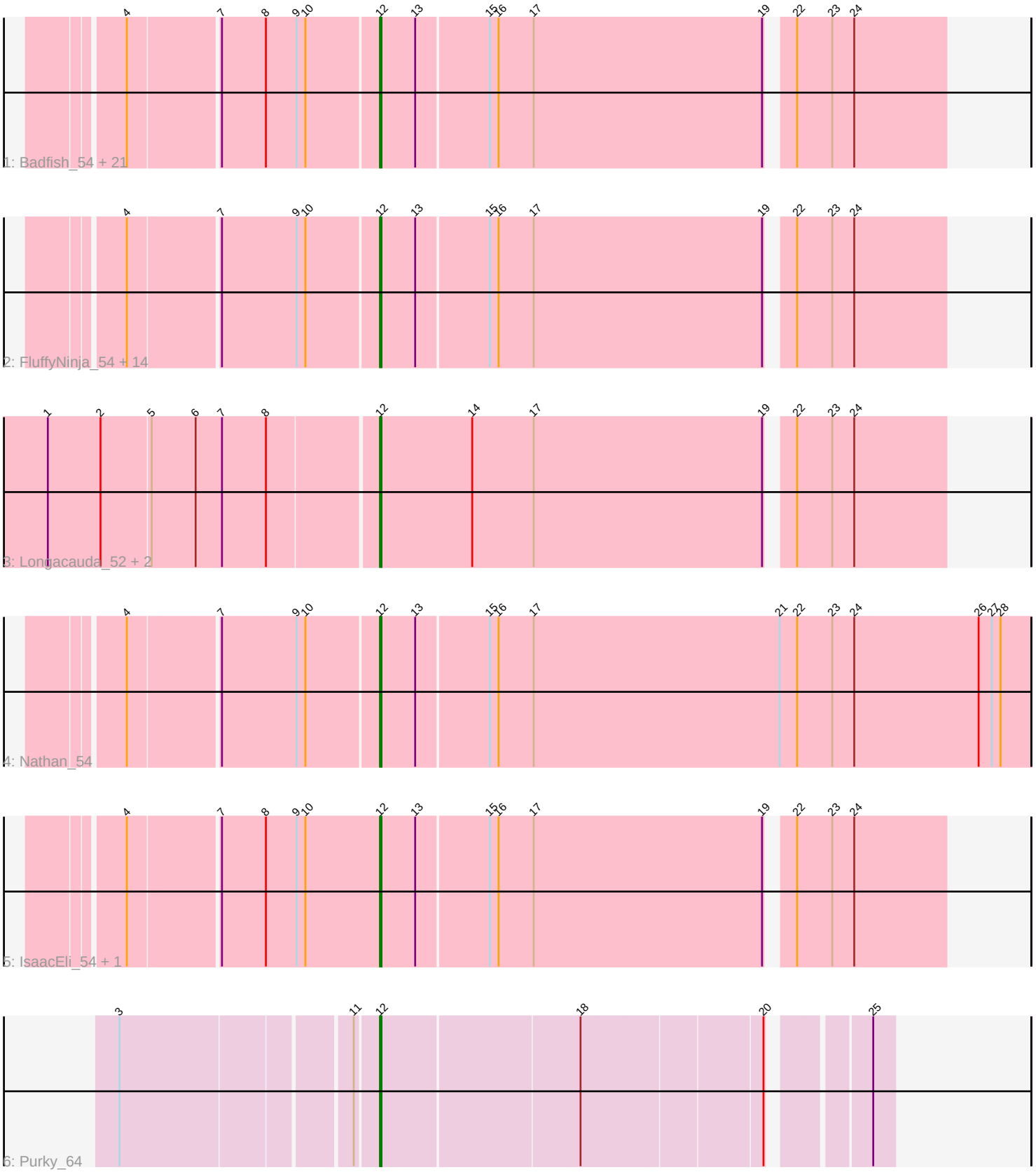
Pham 347768


4
7
8
9
10
12
13
15
16
17
19
22
23
24
1: Badfish_54 + 21
4
7
9
10
12
13
15
16
17
19
22
23
24
2: FluffyNinja_54 + 14
1
2
5
6
7
8
12
14
17
19
22
23
24
3: Longacauda_52 + 2
4
7
9
10
12
13
15
16
17
21
22
23
24
26
27
28
4: Nathan_54
4
7
8
9
10
12
13
15
16
17
19
22
23
24
5: IsaacEli_54 + 1
3
11
12
18
20
25
6: Purky_64

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 347768 Report

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

Pham number 347768 has 44 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Badfish_54, Telesworld_52, Adriana_54, ThreeOh3D2_54, PG1_54, Morty_54, Piglet_0053, Lego3393_52, RedMaple_53, Waterdiva_53, Fang_54, ABU_54, Eugenia_53, Cornobble_52, OSmaximus_54, Serpentine_0053, MRabcd_52, Megatron_54, Mulan_53, Usavi_53, Beaglebox_52, Nacho_0054
• Track 2 : FluffyNinja_54, Chah_55, Yoshand_54, Swish_54, BlackStallion_54, PhatCats2014_54, FriarPreacher_52, Katniss_54, JacAttac_54, Orion_54, Pherdinand_54, Sigman_54, Scoot17C_54, Phamished_54, Phipps_53
• Track 3 : Longacauda_52, HighStump_53, Legolas_53
• Track 4 : Nathan_54
• Track 5 : IsaacEli_54, Kikipoo_54
• Track 6 : Purky_64

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

The start number called the most often in the published annotations is 12, it was called in 44 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_54, Adriana_54, Badfish_54, Beaglebox_52, BlackStallion_54, Chah_55, Cornobble_52, Eugenia_53, Fang_54, FluffyNinja_54, FriarPreacher_52, HighStump_53, IsaacEli_54, JacAttac_54, Katniss_54, Kikipoo_54, Lego3393_52, Legolas_53, Longacauda_52, MRabcd_52, Megatron_54, Morty_54, Mulan_53, Nacho_0054, Nathan_54, OSmaximus_54, Orion_54, PG1_54, Phamished_54, PhatCats2014_54, Pherdinand_54, Phipps_53, Piglet_0053, Purky_64, RedMaple_53, Scoot17C_54, Serpentine_0053, Sigman_54, Swish_54, Telesworld_52, ThreeOh3D2_54, Usavi_53, Waterdiva_53, Yoshand_54,

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

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

Summary by start number:

Start 12:
• Found in 44 of 44 (100.0%) of genes in pham
• Manual Annotations of this start: 44 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ABU_54 (B1), Adriana_54 (B1), Badfish_54 (B1), Beaglebox_52 (B1), BlackStallion_54 (B1), Chah_55 (B1), Cornobble_52 (B1), Eugenia_53 (B1), Fang_54 (B1), FluffyNinja_54 (B1), FriarPreacher_52 (B1), HighStump_53 (B1), IsaacEli_54 (B1), JacAttac_54 (B1), Katniss_54 (B1), Kikipoo_54 (B1), Lego3393_52 (B1), Legolas_53 (B1), Longacauda_52 (B1), MRabcd_52 (B1), Megatron_54 (B1), Morty_54 (B1), Mulan_53 (B1), Nacho_0054 (B1), Nathan_54 (B1), OSmaximus_54 (B1), Orion_54 (B1), PG1_54 (B1), Phamished_54 (B1), PhatCats2014_54 (B1), Pherdinand_54 (B1), Phipps_53 (B1), Piglet_0053 (B1), Purky_64 (P6), RedMaple_53 (B1), Scoot17C_54 (B1), Serpentine_0053 (B1), Sigman_54 (B1), Swish_54 (B1), Telesworld_52 (B1), ThreeOh3D2_54 (B1), Usavi_53 (B1), Waterdiva_53 (B1), Yoshand_54 (B1),

Summary by clusters:

There are 2 clusters represented in this pham: P6, B1,

Info for manual annotations of cluster B1:
•Start number 12 was manually annotated 43 times for cluster B1.

Info for manual annotations of cluster P6:
•Start number 12 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: ABU_54 Start: 47593, Stop: 47222, Start Num: 12
Candidate Starts for ABU_54:
(4, 47752), (7, 47695), (8, 47668), (9, 47647), (10, 47641), (Start: 12 @47593 has 44 MA's), (13, 47569), (15, 47521), (16, 47515), (17, 47491), (19, 47335), (22, 47323), (23, 47299), (24, 47284),

Gene: Adriana_54 Start: 47590, Stop: 47219, Start Num: 12
Candidate Starts for Adriana_54:
(4, 47749), (7, 47692), (8, 47665), (9, 47644), (10, 47638), (Start: 12 @47590 has 44 MA's), (13, 47566), (15, 47518), (16, 47512), (17, 47488), (19, 47332), (22, 47320), (23, 47296), (24, 47281),

Gene: Badfish_54 Start: 47615, Stop: 47244, Start Num: 12
Candidate Starts for Badfish_54:
(4, 47774), (7, 47717), (8, 47690), (9, 47669), (10, 47663), (Start: 12 @47615 has 44 MA's), (13, 47591), (15, 47543), (16, 47537), (17, 47513), (19, 47357), (22, 47345), (23, 47321), (24, 47306),

Gene: Beaglebox_52 Start: 47167, Stop: 46796, Start Num: 12
Candidate Starts for Beaglebox_52:
(4, 47326), (7, 47269), (8, 47242), (9, 47221), (10, 47215), (Start: 12 @47167 has 44 MA's), (13, 47143), (15, 47095), (16, 47089), (17, 47065), (19, 46909), (22, 46897), (23, 46873), (24, 46858),

Gene: BlackStallion_54 Start: 47621, Stop: 47250, Start Num: 12
Candidate Starts for BlackStallion_54:

(4, 47780), (7, 47723), (9, 47675), (10, 47669), (Start: 12 @47621 has 44 MA's), (13, 47597), (15, 47549), (16, 47543), (17, 47519), (19, 47363), (22, 47351), (23, 47327), (24, 47312),

Gene: Chah_55 Start: 47614, Stop: 47243, Start Num: 12
Candidate Starts for Chah_55:
(4, 47773), (7, 47716), (9, 47668), (10, 47662), (Start: 12 @47614 has 44 MA's), (13, 47590), (15, 47542), (16, 47536), (17, 47512), (19, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: Cornobble_52 Start: 47022, Stop: 46651, Start Num: 12
Candidate Starts for Cornobble_52:
(4, 47181), (7, 47124), (8, 47097), (9, 47076), (10, 47070), (Start: 12 @47022 has 44 MA's), (13, 46998), (15, 46950), (16, 46944), (17, 46920), (19, 46764), (22, 46752), (23, 46728), (24, 46713),

Gene: Eugenia_53 Start: 47460, Stop: 47089, Start Num: 12
Candidate Starts for Eugenia_53:
(4, 47619), (7, 47562), (8, 47535), (9, 47514), (10, 47508), (Start: 12 @47460 has 44 MA's), (13, 47436), (15, 47388), (16, 47382), (17, 47358), (19, 47202), (22, 47190), (23, 47166), (24, 47151),

Gene: Fang_54 Start: 47608, Stop: 47237, Start Num: 12
Candidate Starts for Fang_54:
(4, 47767), (7, 47710), (8, 47683), (9, 47662), (10, 47656), (Start: 12 @47608 has 44 MA's), (13, 47584), (15, 47536), (16, 47530), (17, 47506), (19, 47350), (22, 47338), (23, 47314), (24, 47299),

Gene: FluffyNinja_54 Start: 47622, Stop: 47251, Start Num: 12
Candidate Starts for FluffyNinja_54:
(4, 47781), (7, 47724), (9, 47676), (10, 47670), (Start: 12 @47622 has 44 MA's), (13, 47598), (15, 47550), (16, 47544), (17, 47520), (19, 47364), (22, 47352), (23, 47328), (24, 47313),

Gene: FriarPreacher_52 Start: 47499, Stop: 47128, Start Num: 12
Candidate Starts for FriarPreacher_52:
(4, 47658), (7, 47601), (9, 47553), (10, 47547), (Start: 12 @47499 has 44 MA's), (13, 47475), (15, 47427), (16, 47421), (17, 47397), (19, 47241), (22, 47229), (23, 47205), (24, 47190),

Gene: HighStump_53 Start: 47304, Stop: 46930, Start Num: 12
Candidate Starts for HighStump_53:
(1, 47523), (2, 47487), (5, 47454), (6, 47424), (7, 47406), (8, 47376), (Start: 12 @47304 has 44 MA's), (14, 47241), (17, 47199), (19, 47043), (22, 47031), (23, 47007), (24, 46992),

Gene: IsaacEli_54 Start: 47605, Stop: 47234, Start Num: 12
Candidate Starts for IsaacEli_54:
(4, 47767), (7, 47710), (8, 47683), (9, 47662), (10, 47656), (Start: 12 @47605 has 44 MA's), (13, 47581), (15, 47533), (16, 47527), (17, 47503), (19, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: JacAttac_54 Start: 47587, Stop: 47216, Start Num: 12
Candidate Starts for JacAttac_54:
(4, 47746), (7, 47689), (9, 47641), (10, 47635), (Start: 12 @47587 has 44 MA's), (13, 47563), (15, 47515), (16, 47509), (17, 47485), (19, 47329), (22, 47317), (23, 47293), (24, 47278),

Gene: Katniss_54 Start: 47614, Stop: 47243, Start Num: 12
Candidate Starts for Katniss_54:
(4, 47773), (7, 47716), (9, 47668), (10, 47662), (Start: 12 @47614 has 44 MA's), (13, 47590), (15, 47542), (16, 47536), (17, 47512), (19, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: Kikipoo_54 Start: 47605, Stop: 47234, Start Num: 12
Candidate Starts for Kikipoo_54:
(4, 47767), (7, 47710), (8, 47683), (9, 47662), (10, 47656), (Start: 12 @47605 has 44 MA's), (13, 47581), (15, 47533), (16, 47527), (17, 47503), (19, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: Lego3393_52 Start: 47608, Stop: 47237, Start Num: 12
Candidate Starts for Lego3393_52:
(4, 47767), (7, 47710), (8, 47683), (9, 47662), (10, 47656), (Start: 12 @47608 has 44 MA's), (13, 47584), (15, 47536), (16, 47530), (17, 47506), (19, 47350), (22, 47338), (23, 47314), (24, 47299),

Gene: Legolas_53 Start: 47201, Stop: 46827, Start Num: 12
Candidate Starts for Legolas_53:
(1, 47420), (2, 47384), (5, 47351), (6, 47321), (7, 47303), (8, 47273), (Start: 12 @47201 has 44 MA's), (14, 47138), (17, 47096), (19, 46940), (22, 46928), (23, 46904), (24, 46889),

Gene: Longacauda_52 Start: 47164, Stop: 46790, Start Num: 12
Candidate Starts for Longacauda_52:
(1, 47383), (2, 47347), (5, 47314), (6, 47284), (7, 47266), (8, 47236), (Start: 12 @47164 has 44 MA's), (14, 47101), (17, 47059), (19, 46903), (22, 46891), (23, 46867), (24, 46852),

Gene: MRabcd_52 Start: 47159, Stop: 46788, Start Num: 12
Candidate Starts for MRabcd_52:
(4, 47318), (7, 47261), (8, 47234), (9, 47213), (10, 47207), (Start: 12 @47159 has 44 MA's), (13, 47135), (15, 47087), (16, 47081), (17, 47057), (19, 46901), (22, 46889), (23, 46865), (24, 46850),

Gene: Megatron_54 Start: 47596, Stop: 47225, Start Num: 12
Candidate Starts for Megatron_54:
(4, 47755), (7, 47698), (8, 47671), (9, 47650), (10, 47644), (Start: 12 @47596 has 44 MA's), (13, 47572), (15, 47524), (16, 47518), (17, 47494), (19, 47338), (22, 47326), (23, 47302), (24, 47287),

Gene: Morty_54 Start: 47605, Stop: 47234, Start Num: 12
Candidate Starts for Morty_54:
(4, 47764), (7, 47707), (8, 47680), (9, 47659), (10, 47653), (Start: 12 @47605 has 44 MA's), (13, 47581), (15, 47533), (16, 47527), (17, 47503), (19, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: Mulan_53 Start: 47322, Stop: 46951, Start Num: 12
Candidate Starts for Mulan_53:
(4, 47481), (7, 47424), (8, 47397), (9, 47376), (10, 47370), (Start: 12 @47322 has 44 MA's), (13, 47298), (15, 47250), (16, 47244), (17, 47220), (19, 47064), (22, 47052), (23, 47028), (24, 47013),

Gene: Nacho_0054 Start: 47599, Stop: 47228, Start Num: 12
Candidate Starts for Nacho_0054:
(4, 47758), (7, 47701), (8, 47674), (9, 47653), (10, 47647), (Start: 12 @47599 has 44 MA's), (13, 47575), (15, 47527), (16, 47521), (17, 47497), (19, 47341), (22, 47329), (23, 47305), (24, 47290),

Gene: Nathan_54 Start: 47733, Stop: 47293, Start Num: 12
Candidate Starts for Nathan_54:
(4, 47892), (7, 47835), (9, 47787), (10, 47781), (Start: 12 @47733 has 44 MA's), (13, 47709), (15, 47661), (16, 47655), (17, 47631), (21, 47463), (22, 47451), (23, 47427), (24, 47412), (26, 47328), (27, 47319), (28, 47313),

Gene: OSmaximus_54 Start: 47638, Stop: 47267, Start Num: 12
Candidate Starts for OSmaximus_54:

(4, 47797), (7, 47740), (8, 47713), (9, 47692), (10, 47686), (Start: 12 @47638 has 44 MA's), (13, 47614), (15, 47566), (16, 47560), (17, 47536), (19, 47380), (22, 47368), (23, 47344), (24, 47329),

Gene: Orion_54 Start: 47594, Stop: 47223, Start Num: 12
Candidate Starts for Orion_54:
(4, 47753), (7, 47696), (9, 47648), (10, 47642), (Start: 12 @47594 has 44 MA's), (13, 47570), (15, 47522), (16, 47516), (17, 47492), (19, 47336), (22, 47324), (23, 47300), (24, 47285),

Gene: PG1_54 Start: 47607, Stop: 47236, Start Num: 12
Candidate Starts for PG1_54:
(4, 47766), (7, 47709), (8, 47682), (9, 47661), (10, 47655), (Start: 12 @47607 has 44 MA's), (13, 47583), (15, 47535), (16, 47529), (17, 47505), (19, 47349), (22, 47337), (23, 47313), (24, 47298),

Gene: Phamished_54 Start: 47614, Stop: 47243, Start Num: 12
Candidate Starts for Phamished_54:
(4, 47773), (7, 47716), (9, 47668), (10, 47662), (Start: 12 @47614 has 44 MA's), (13, 47590), (15, 47542), (16, 47536), (17, 47512), (19, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: PhatCats2014_54 Start: 47611, Stop: 47240, Start Num: 12
Candidate Starts for PhatCats2014_54:
(4, 47770), (7, 47713), (9, 47665), (10, 47659), (Start: 12 @47611 has 44 MA's), (13, 47587), (15, 47539), (16, 47533), (17, 47509), (19, 47353), (22, 47341), (23, 47317), (24, 47302),

Gene: Pherdinand_54 Start: 47624, Stop: 47253, Start Num: 12
Candidate Starts for Pherdinand_54:
(4, 47783), (7, 47726), (9, 47678), (10, 47672), (Start: 12 @47624 has 44 MA's), (13, 47600), (15, 47552), (16, 47546), (17, 47522), (19, 47366), (22, 47354), (23, 47330), (24, 47315),

Gene: Phipps_53 Start: 47442, Stop: 47071, Start Num: 12
Candidate Starts for Phipps_53:
(4, 47601), (7, 47544), (9, 47496), (10, 47490), (Start: 12 @47442 has 44 MA's), (13, 47418), (15, 47370), (16, 47364), (17, 47340), (19, 47184), (22, 47172), (23, 47148), (24, 47133),

Gene: Piglet_0053 Start: 47584, Stop: 47213, Start Num: 12
Candidate Starts for Piglet_0053:
(4, 47743), (7, 47686), (8, 47659), (9, 47638), (10, 47632), (Start: 12 @47584 has 44 MA's), (13, 47560), (15, 47512), (16, 47506), (17, 47482), (19, 47326), (22, 47314), (23, 47290), (24, 47275),

Gene: Purky_64 Start: 41545, Stop: 41862, Start Num: 12
Candidate Starts for Purky_64:
(3, 41383), (11, 41530), (Start: 12 @41545 has 44 MA's), (18, 41677), (20, 41794), (25, 41848),

Gene: RedMaple_53 Start: 47604, Stop: 47233, Start Num: 12
Candidate Starts for RedMaple_53:
(4, 47763), (7, 47706), (8, 47679), (9, 47658), (10, 47652), (Start: 12 @47604 has 44 MA's), (13, 47580), (15, 47532), (16, 47526), (17, 47502), (19, 47346), (22, 47334), (23, 47310), (24, 47295),

Gene: Scoot17C_54 Start: 47596, Stop: 47225, Start Num: 12
Candidate Starts for Scoot17C_54:
(4, 47755), (7, 47698), (9, 47650), (10, 47644), (Start: 12 @47596 has 44 MA's), (13, 47572), (15, 47524), (16, 47518), (17, 47494), (19, 47338), (22, 47326), (23, 47302), (24, 47287),

Gene: Serpentine_0053 Start: 47476, Stop: 47105, Start Num: 12

Candidate Starts for Serpentine_0053:
(4, 47635), (7, 47578), (8, 47551), (9, 47530), (10, 47524), (Start: 12 @47476 has 44 MA's), (13, 47452), (15, 47404), (16, 47398), (17, 47374), (19, 47218), (22, 47206), (23, 47182), (24, 47167),

Gene: Sigman_54 Start: 47587, Stop: 47216, Start Num: 12
Candidate Starts for Sigman_54:
(4, 47746), (7, 47689), (9, 47641), (10, 47635), (Start: 12 @47587 has 44 MA's), (13, 47563), (15, 47515), (16, 47509), (17, 47485), (19, 47329), (22, 47317), (23, 47293), (24, 47278),

Gene: Swish_54 Start: 47609, Stop: 47238, Start Num: 12
Candidate Starts for Swish_54:
(4, 47768), (7, 47711), (9, 47663), (10, 47657), (Start: 12 @47609 has 44 MA's), (13, 47585), (15, 47537), (16, 47531), (17, 47507), (19, 47351), (22, 47339), (23, 47315), (24, 47300),

Gene: Telesworld_52 Start: 47162, Stop: 46791, Start Num: 12
Candidate Starts for Telesworld_52:
(4, 47321), (7, 47264), (8, 47237), (9, 47216), (10, 47210), (Start: 12 @47162 has 44 MA's), (13, 47138), (15, 47090), (16, 47084), (17, 47060), (19, 46904), (22, 46892), (23, 46868), (24, 46853),

Gene: ThreeOh3D2_54 Start: 47602, Stop: 47231, Start Num: 12
Candidate Starts for ThreeOh3D2_54:
(4, 47761), (7, 47704), (8, 47677), (9, 47656), (10, 47650), (Start: 12 @47602 has 44 MA's), (13, 47578), (15, 47530), (16, 47524), (17, 47500), (19, 47344), (22, 47332), (23, 47308), (24, 47293),

Gene: Usavi_53 Start: 47465, Stop: 47094, Start Num: 12
Candidate Starts for Usavi_53:
(4, 47624), (7, 47567), (8, 47540), (9, 47519), (10, 47513), (Start: 12 @47465 has 44 MA's), (13, 47441), (15, 47393), (16, 47387), (17, 47363), (19, 47207), (22, 47195), (23, 47171), (24, 47156),

Gene: Waterdiva_53 Start: 47459, Stop: 47088, Start Num: 12
Candidate Starts for Waterdiva_53:
(4, 47618), (7, 47561), (8, 47534), (9, 47513), (10, 47507), (Start: 12 @47459 has 44 MA's), (13, 47435), (15, 47387), (16, 47381), (17, 47357), (19, 47201), (22, 47189), (23, 47165), (24, 47150),

Gene: Yoshand_54 Start: 47622, Stop: 47251, Start Num: 12
Candidate Starts for Yoshand_54:
(4, 47781), (7, 47724), (9, 47676), (10, 47670), (Start: 12 @47622 has 44 MA's), (13, 47598), (15, 47550), (16, 47544), (17, 47520), (19, 47364), (22, 47352), (23, 47328), (24, 47313),