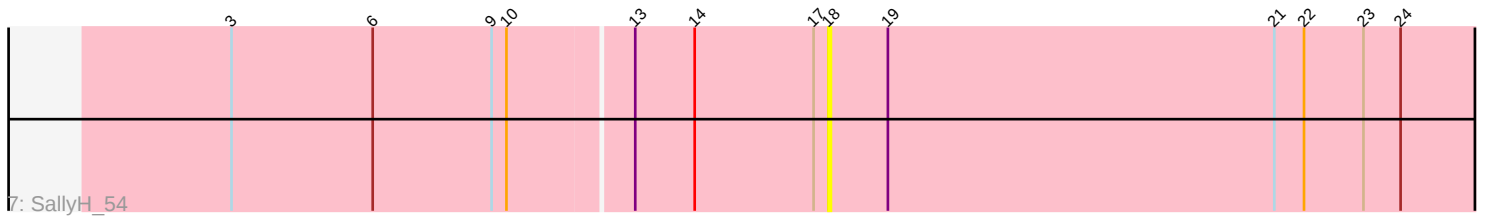
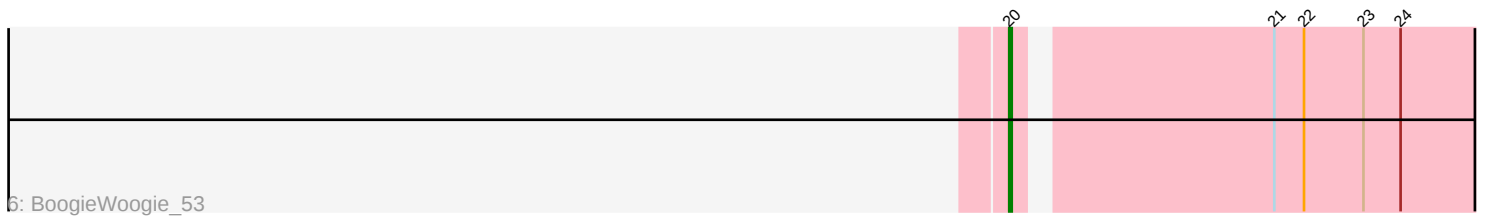
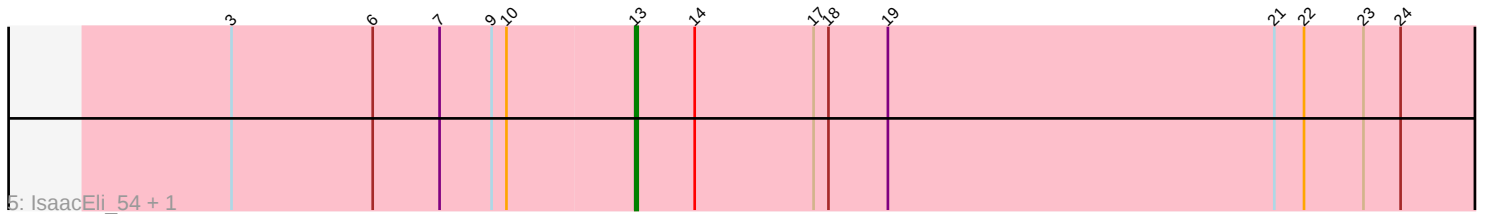
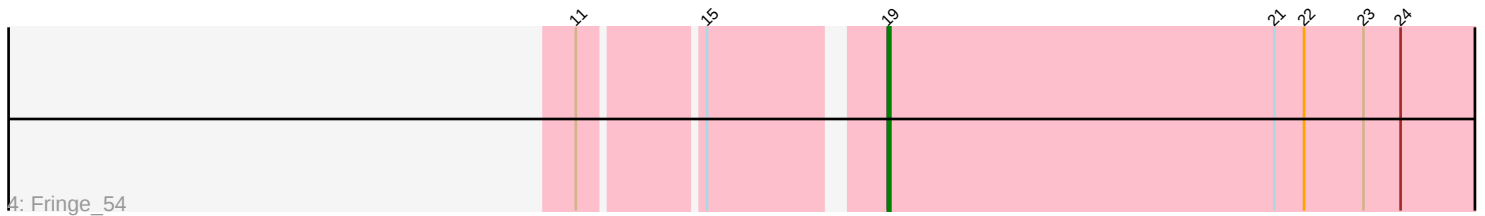
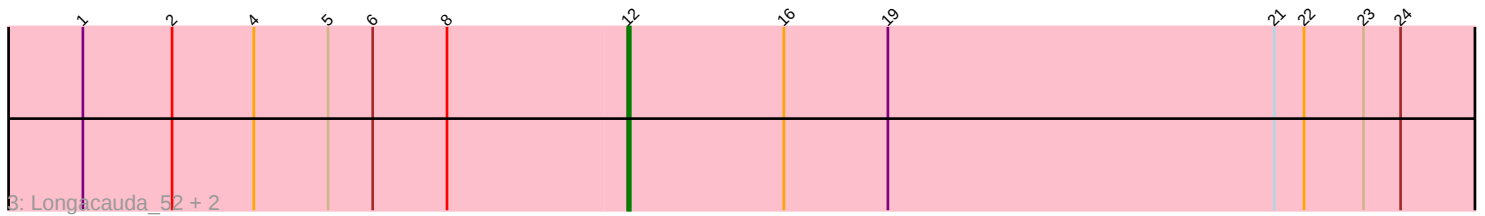
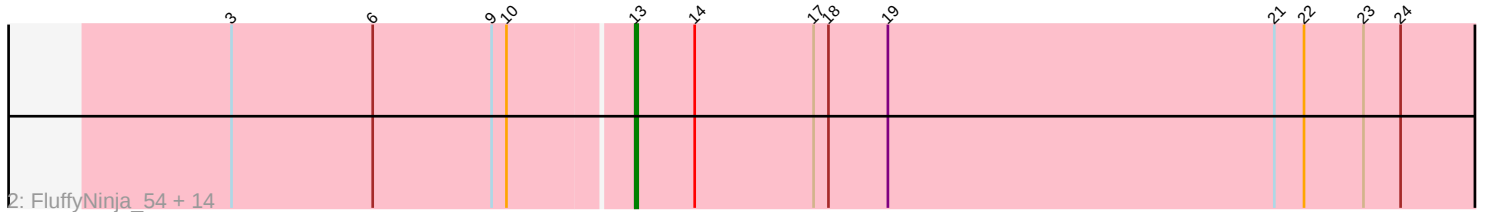
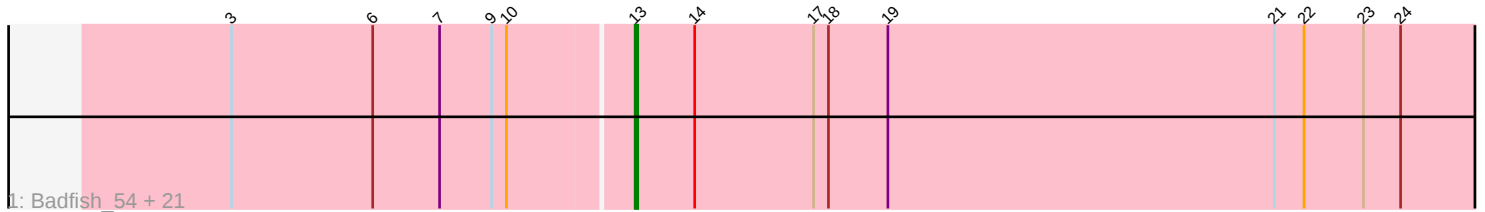


Pham 329166



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 329166 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329166 has 45 members, 1 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, Megatron_54, Mulan_53, Usavi_53, Beaglebox_52, MRabcd_52, Nacho_0054
- Track 2 : FluffyNinja_54, Chah_55, Yoshand_54, Swish_54, BlackStallion_54, PhatCats2014_54, FriarPreacher_52, Katniss_54, Sigman_54, JacAttac_54, Orion_54, Pherdinand_54, Scoot17C_54, Phamished_54, Phipps_53
- Track 3 : Longacauda_52, HighStump_53, Legolas_53
- Track 4 : Fringe_54
- Track 5 : IsaacEli_54, Kikipoo_54
- Track 6 : BoogieWoogie_53
- Track 7 : SallyH_54

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

The start number called the most often in the published annotations is 13, it was called in 39 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, IsaacEli_54, JacAttac_54, Katniss_54, Kikipoo_54, Lego3393_52, MRabcd_52, Megatron_54, Morty_54, Mulan_53, Nacho_0054, OSmaximus_54, Orion_54, PG1_54, Phamished_54, PhatCats2014_54, Pherdinand_54, Phipps_53, Piglet_0053, 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:

- SallyH_54,

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

- BoogieWoogie_53, Fringe_54, HighStump_53, Legolas_53, Longacauda_52,

Summary by start number:

Start 12:

- Found in 3 of 45 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HighStump_53 (B1), Legolas_53 (B1), Longacauda_52 (B1),

Start 13:

- Found in 40 of 45 (88.9%) of genes in pham
- Manual Annotations of this start: 39 of 44
- Called 97.5% 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), IsaacEli_54 (B1), JacAttac_54 (B1), Katniss_54 (B1), Kikipoo_54 (B1), Lego3393_52 (B1), MRabcd_52 (B1), Megatron_54 (B1), Morty_54 (B1), Mulan_53 (B1), Nacho_0054 (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), 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),

Start 18:

- Found in 40 of 45 (88.9%) of genes in pham
- No Manual Annotations of this start.
- Called 2.5% of time when present
- Phage (with cluster) where this start called: SallyH_54 (B1),

Start 19:

- Found in 44 of 45 (97.8%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Fringe_54 (B1),

Start 20:

- Found in 1 of 45 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoogieWoogie_53 (B1),

Summary by clusters:

There is one cluster represented in this pham: B1

Info for manual annotations of cluster B1:

- Start number 12 was manually annotated 3 times for cluster B1.
- Start number 13 was manually annotated 39 times for cluster B1.
- Start number 19 was manually annotated 1 time for cluster B1.
- Start number 20 was manually annotated 1 time for cluster B1.

Gene Information:

Gene: ABU_54 Start: 47593, Stop: 47222, Start Num: 13

Candidate Starts for ABU_54:

(3, 47752), (6, 47695), (7, 47668), (9, 47647), (10, 47641), (Start: 13 @47593 has 39 MA's), (14, 47569), (17, 47521), (18, 47515), (Start: 19 @47491 has 1 MA's), (21, 47335), (22, 47323), (23, 47299), (24, 47284),

Gene: Adriana_54 Start: 47590, Stop: 47219, Start Num: 13

Candidate Starts for Adriana_54:

(3, 47749), (6, 47692), (7, 47665), (9, 47644), (10, 47638), (Start: 13 @47590 has 39 MA's), (14, 47566), (17, 47518), (18, 47512), (Start: 19 @47488 has 1 MA's), (21, 47332), (22, 47320), (23, 47296), (24, 47281),

Gene: Badfish_54 Start: 47615, Stop: 47244, Start Num: 13

Candidate Starts for Badfish_54:

(3, 47774), (6, 47717), (7, 47690), (9, 47669), (10, 47663), (Start: 13 @47615 has 39 MA's), (14, 47591), (17, 47543), (18, 47537), (Start: 19 @47513 has 1 MA's), (21, 47357), (22, 47345), (23, 47321), (24, 47306),

Gene: Beaglebox_52 Start: 47167, Stop: 46796, Start Num: 13

Candidate Starts for Beaglebox_52:

(3, 47326), (6, 47269), (7, 47242), (9, 47221), (10, 47215), (Start: 13 @47167 has 39 MA's), (14, 47143), (17, 47095), (18, 47089), (Start: 19 @47065 has 1 MA's), (21, 46909), (22, 46897), (23, 46873), (24, 46858),

Gene: BlackStallion_54 Start: 47621, Stop: 47250, Start Num: 13

Candidate Starts for BlackStallion_54:

(3, 47780), (6, 47723), (9, 47675), (10, 47669), (Start: 13 @47621 has 39 MA's), (14, 47597), (17, 47549), (18, 47543), (Start: 19 @47519 has 1 MA's), (21, 47363), (22, 47351), (23, 47327), (24, 47312),

Gene: BoogieWoogie_53 Start: 46989, Stop: 46780, Start Num: 20

Candidate Starts for BoogieWoogie_53:

(Start: 20 @46989 has 1 MA's), (21, 46893), (22, 46881), (23, 46857), (24, 46842),

Gene: Chah_55 Start: 47614, Stop: 47243, Start Num: 13

Candidate Starts for Chah_55:

(3, 47773), (6, 47716), (9, 47668), (10, 47662), (Start: 13 @47614 has 39 MA's), (14, 47590), (17, 47542), (18, 47536), (Start: 19 @47512 has 1 MA's), (21, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: Cornobble_52 Start: 47022, Stop: 46651, Start Num: 13

Candidate Starts for Cornobble_52:

(3, 47181), (6, 47124), (7, 47097), (9, 47076), (10, 47070), (Start: 13 @47022 has 39 MA's), (14, 46998), (17, 46950), (18, 46944), (Start: 19 @46920 has 1 MA's), (21, 46764), (22, 46752), (23, 46728), (24, 46713),

Gene: Eugenia_53 Start: 47460, Stop: 47089, Start Num: 13

Candidate Starts for Eugenia_53:

(3, 47619), (6, 47562), (7, 47535), (9, 47514), (10, 47508), (Start: 13 @47460 has 39 MA's), (14, 47436), (17, 47388), (18, 47382), (Start: 19 @47358 has 1 MA's), (21, 47202), (22, 47190), (23, 47166), (24, 47151),

Gene: Fang_54 Start: 47608, Stop: 47237, Start Num: 13

Candidate Starts for Fang_54:

(3, 47767), (6, 47710), (7, 47683), (9, 47662), (10, 47656), (Start: 13 @47608 has 39 MA's), (14, 47584), (17, 47536), (18, 47530), (Start: 19 @47506 has 1 MA's), (21, 47350), (22, 47338), (23, 47314), (24, 47299),

Gene: FluffyNinja_54 Start: 47622, Stop: 47251, Start Num: 13

Candidate Starts for FluffyNinja_54:

(3, 47781), (6, 47724), (9, 47676), (10, 47670), (Start: 13 @47622 has 39 MA's), (14, 47598), (17, 47550), (18, 47544), (Start: 19 @47520 has 1 MA's), (21, 47364), (22, 47352), (23, 47328), (24, 47313),

Gene: FriarPreacher_52 Start: 47499, Stop: 47128, Start Num: 13

Candidate Starts for FriarPreacher_52:

(3, 47658), (6, 47601), (9, 47553), (10, 47547), (Start: 13 @47499 has 39 MA's), (14, 47475), (17, 47427), (18, 47421), (Start: 19 @47397 has 1 MA's), (21, 47241), (22, 47229), (23, 47205), (24, 47190),

Gene: Fringe_54 Start: 47482, Stop: 47213, Start Num: 19

Candidate Starts for Fringe_54:

(11, 47590), (15, 47545), (Start: 19 @47482 has 1 MA's), (21, 47326), (22, 47314), (23, 47290), (24, 47275),

Gene: HighStump_53 Start: 47304, Stop: 46930, Start Num: 12

Candidate Starts for HighStump_53:

(1, 47523), (2, 47487), (4, 47454), (5, 47424), (6, 47406), (8, 47376), (Start: 12 @47304 has 3 MA's), (16, 47241), (Start: 19 @47199 has 1 MA's), (21, 47043), (22, 47031), (23, 47007), (24, 46992),

Gene: IsaacEli_54 Start: 47605, Stop: 47234, Start Num: 13

Candidate Starts for IsaacEli_54:

(3, 47767), (6, 47710), (7, 47683), (9, 47662), (10, 47656), (Start: 13 @47605 has 39 MA's), (14, 47581), (17, 47533), (18, 47527), (Start: 19 @47503 has 1 MA's), (21, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: JacAttac_54 Start: 47587, Stop: 47216, Start Num: 13

Candidate Starts for JacAttac_54:

(3, 47746), (6, 47689), (9, 47641), (10, 47635), (Start: 13 @47587 has 39 MA's), (14, 47563), (17, 47515), (18, 47509), (Start: 19 @47485 has 1 MA's), (21, 47329), (22, 47317), (23, 47293), (24, 47278),

Gene: Katniss_54 Start: 47614, Stop: 47243, Start Num: 13

Candidate Starts for Katniss_54:

(3, 47773), (6, 47716), (9, 47668), (10, 47662), (Start: 13 @47614 has 39 MA's), (14, 47590), (17, 47542), (18, 47536), (Start: 19 @47512 has 1 MA's), (21, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: Kikipoo_54 Start: 47605, Stop: 47234, Start Num: 13

Candidate Starts for Kikipoo_54:

(3, 47767), (6, 47710), (7, 47683), (9, 47662), (10, 47656), (Start: 13 @47605 has 39 MA's), (14, 47581), (17, 47533), (18, 47527), (Start: 19 @47503 has 1 MA's), (21, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: Lego3393_52 Start: 47608, Stop: 47237, Start Num: 13

Candidate Starts for Lego3393_52:

(3, 47767), (6, 47710), (7, 47683), (9, 47662), (10, 47656), (Start: 13 @47608 has 39 MA's), (14, 47584), (17, 47536), (18, 47530), (Start: 19 @47506 has 1 MA's), (21, 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), (4, 47351), (5, 47321), (6, 47303), (8, 47273), (Start: 12 @47201 has 3 MA's), (16, 47138), (Start: 19 @47096 has 1 MA's), (21, 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), (4, 47314), (5, 47284), (6, 47266), (8, 47236), (Start: 12 @47164 has 3 MA's), (16, 47101), (Start: 19 @47059 has 1 MA's), (21, 46903), (22, 46891), (23, 46867), (24, 46852),

Gene: MRabcd_52 Start: 47159, Stop: 46788, Start Num: 13

Candidate Starts for MRabcd_52:

(3, 47318), (6, 47261), (7, 47234), (9, 47213), (10, 47207), (Start: 13 @47159 has 39 MA's), (14, 47135), (17, 47087), (18, 47081), (Start: 19 @47057 has 1 MA's), (21, 46901), (22, 46889), (23, 46865), (24, 46850),

Gene: Megatron_54 Start: 47596, Stop: 47225, Start Num: 13

Candidate Starts for Megatron_54:

(3, 47755), (6, 47698), (7, 47671), (9, 47650), (10, 47644), (Start: 13 @47596 has 39 MA's), (14, 47572), (17, 47524), (18, 47518), (Start: 19 @47494 has 1 MA's), (21, 47338), (22, 47326), (23, 47302), (24, 47287),

Gene: Morty_54 Start: 47605, Stop: 47234, Start Num: 13

Candidate Starts for Morty_54:

(3, 47764), (6, 47707), (7, 47680), (9, 47659), (10, 47653), (Start: 13 @47605 has 39 MA's), (14, 47581), (17, 47533), (18, 47527), (Start: 19 @47503 has 1 MA's), (21, 47347), (22, 47335), (23, 47311), (24, 47296),

Gene: Mulan_53 Start: 47322, Stop: 46951, Start Num: 13

Candidate Starts for Mulan_53:

(3, 47481), (6, 47424), (7, 47397), (9, 47376), (10, 47370), (Start: 13 @47322 has 39 MA's), (14, 47298), (17, 47250), (18, 47244), (Start: 19 @47220 has 1 MA's), (21, 47064), (22, 47052), (23, 47028), (24, 47013),

Gene: Nacho_0054 Start: 47599, Stop: 47228, Start Num: 13

Candidate Starts for Nacho_0054:

(3, 47758), (6, 47701), (7, 47674), (9, 47653), (10, 47647), (Start: 13 @47599 has 39 MA's), (14, 47575), (17, 47527), (18, 47521), (Start: 19 @47497 has 1 MA's), (21, 47341), (22, 47329), (23, 47305), (24, 47290),

Gene: OSmaximus_54 Start: 47638, Stop: 47267, Start Num: 13

Candidate Starts for OSmaximus_54:

(3, 47797), (6, 47740), (7, 47713), (9, 47692), (10, 47686), (Start: 13 @47638 has 39 MA's), (14, 47614), (17, 47566), (18, 47560), (Start: 19 @47536 has 1 MA's), (21, 47380), (22, 47368), (23, 47344), (24, 47329),

Gene: Orion_54 Start: 47594, Stop: 47223, Start Num: 13

Candidate Starts for Orion_54:

(3, 47753), (6, 47696), (9, 47648), (10, 47642), (Start: 13 @47594 has 39 MA's), (14, 47570), (17, 47522), (18, 47516), (Start: 19 @47492 has 1 MA's), (21, 47336), (22, 47324), (23, 47300), (24, 47285),

Gene: PG1_54 Start: 47607, Stop: 47236, Start Num: 13

Candidate Starts for PG1_54:

(3, 47766), (6, 47709), (7, 47682), (9, 47661), (10, 47655), (Start: 13 @47607 has 39 MA's), (14, 47583), (17, 47535), (18, 47529), (Start: 19 @47505 has 1 MA's), (21, 47349), (22, 47337), (23, 47313), (24, 47298),

Gene: Phamished_54 Start: 47614, Stop: 47243, Start Num: 13

Candidate Starts for Phamished_54:

(3, 47773), (6, 47716), (9, 47668), (10, 47662), (Start: 13 @47614 has 39 MA's), (14, 47590), (17, 47542), (18, 47536), (Start: 19 @47512 has 1 MA's), (21, 47356), (22, 47344), (23, 47320), (24, 47305),

Gene: PhatCats2014_54 Start: 47611, Stop: 47240, Start Num: 13

Candidate Starts for PhatCats2014_54:

(3, 47770), (6, 47713), (9, 47665), (10, 47659), (Start: 13 @47611 has 39 MA's), (14, 47587), (17, 47539), (18, 47533), (Start: 19 @47509 has 1 MA's), (21, 47353), (22, 47341), (23, 47317), (24, 47302),

Gene: Pherdinand_54 Start: 47624, Stop: 47253, Start Num: 13

Candidate Starts for Pherdinand_54:

(3, 47783), (6, 47726), (9, 47678), (10, 47672), (Start: 13 @47624 has 39 MA's), (14, 47600), (17, 47552), (18, 47546), (Start: 19 @47522 has 1 MA's), (21, 47366), (22, 47354), (23, 47330), (24, 47315),

Gene: Phipps_53 Start: 47442, Stop: 47071, Start Num: 13

Candidate Starts for Phipps_53:

(3, 47601), (6, 47544), (9, 47496), (10, 47490), (Start: 13 @47442 has 39 MA's), (14, 47418), (17, 47370), (18, 47364), (Start: 19 @47340 has 1 MA's), (21, 47184), (22, 47172), (23, 47148), (24, 47133),

Gene: Piglet_0053 Start: 47584, Stop: 47213, Start Num: 13

Candidate Starts for Piglet_0053:

(3, 47743), (6, 47686), (7, 47659), (9, 47638), (10, 47632), (Start: 13 @47584 has 39 MA's), (14, 47560), (17, 47512), (18, 47506), (Start: 19 @47482 has 1 MA's), (21, 47326), (22, 47314), (23, 47290), (24, 47275),

Gene: RedMaple_53 Start: 47604, Stop: 47233, Start Num: 13

Candidate Starts for RedMaple_53:

(3, 47763), (6, 47706), (7, 47679), (9, 47658), (10, 47652), (Start: 13 @47604 has 39 MA's), (14, 47580), (17, 47532), (18, 47526), (Start: 19 @47502 has 1 MA's), (21, 47346), (22, 47334), (23, 47310), (24, 47295),

Gene: SallyH_54 Start: 47529, Stop: 47236, Start Num: 18

Candidate Starts for SallyH_54:

(3, 47766), (6, 47709), (9, 47661), (10, 47655), (Start: 13 @47607 has 39 MA's), (14, 47583), (17, 47535), (18, 47529), (Start: 19 @47505 has 1 MA's), (21, 47349), (22, 47337), (23, 47313), (24, 47298),

Gene: Scoot17C_54 Start: 47596, Stop: 47225, Start Num: 13

Candidate Starts for Scoot17C_54:

(3, 47755), (6, 47698), (9, 47650), (10, 47644), (Start: 13 @47596 has 39 MA's), (14, 47572), (17, 47524), (18, 47518), (Start: 19 @47494 has 1 MA's), (21, 47338), (22, 47326), (23, 47302), (24, 47287),

Gene: Serpentine_0053 Start: 47476, Stop: 47105, Start Num: 13

Candidate Starts for Serpentine_0053:

(3, 47635), (6, 47578), (7, 47551), (9, 47530), (10, 47524), (Start: 13 @47476 has 39 MA's), (14, 47452), (17, 47404), (18, 47398), (Start: 19 @47374 has 1 MA's), (21, 47218), (22, 47206), (23, 47182), (24, 47167),

Gene: Sigman_54 Start: 47587, Stop: 47216, Start Num: 13

Candidate Starts for Sigman_54:

(3, 47746), (6, 47689), (9, 47641), (10, 47635), (Start: 13 @47587 has 39 MA's), (14, 47563), (17, 47515), (18, 47509), (Start: 19 @47485 has 1 MA's), (21, 47329), (22, 47317), (23, 47293), (24, 47278),

Gene: Swish_54 Start: 47609, Stop: 47238, Start Num: 13

Candidate Starts for Swish_54:

(3, 47768), (6, 47711), (9, 47663), (10, 47657), (Start: 13 @47609 has 39 MA's), (14, 47585), (17, 47537), (18, 47531), (Start: 19 @47507 has 1 MA's), (21, 47351), (22, 47339), (23, 47315), (24, 47300),

Gene: Telesworld_52 Start: 47162, Stop: 46791, Start Num: 13

Candidate Starts for Telesworld_52:

(3, 47321), (6, 47264), (7, 47237), (9, 47216), (10, 47210), (Start: 13 @47162 has 39 MA's), (14, 47138), (17, 47090), (18, 47084), (Start: 19 @47060 has 1 MA's), (21, 46904), (22, 46892), (23, 46868), (24, 46853),

Gene: ThreeOh3D2_54 Start: 47602, Stop: 47231, Start Num: 13

Candidate Starts for ThreeOh3D2_54:

(3, 47761), (6, 47704), (7, 47677), (9, 47656), (10, 47650), (Start: 13 @47602 has 39 MA's), (14, 47578), (17, 47530), (18, 47524), (Start: 19 @47500 has 1 MA's), (21, 47344), (22, 47332), (23, 47308), (24, 47293),

Gene: Usavi_53 Start: 47465, Stop: 47094, Start Num: 13

Candidate Starts for Usavi_53:

(3, 47624), (6, 47567), (7, 47540), (9, 47519), (10, 47513), (Start: 13 @47465 has 39 MA's), (14, 47441), (17, 47393), (18, 47387), (Start: 19 @47363 has 1 MA's), (21, 47207), (22, 47195), (23, 47171), (24, 47156),

Gene: Waterdiva_53 Start: 47459, Stop: 47088, Start Num: 13

Candidate Starts for Waterdiva_53:

(3, 47618), (6, 47561), (7, 47534), (9, 47513), (10, 47507), (Start: 13 @47459 has 39 MA's), (14, 47435), (17, 47387), (18, 47381), (Start: 19 @47357 has 1 MA's), (21, 47201), (22, 47189), (23, 47165), (24, 47150),

Gene: Yoshand_54 Start: 47622, Stop: 47251, Start Num: 13

Candidate Starts for Yoshand_54:

(3, 47781), (6, 47724), (9, 47676), (10, 47670), (Start: 13 @47622 has 39 MA's), (14, 47598), (17, 47550), (18, 47544), (Start: 19 @47520 has 1 MA's), (21, 47364), (22, 47352), (23, 47328), (24, 47313),

