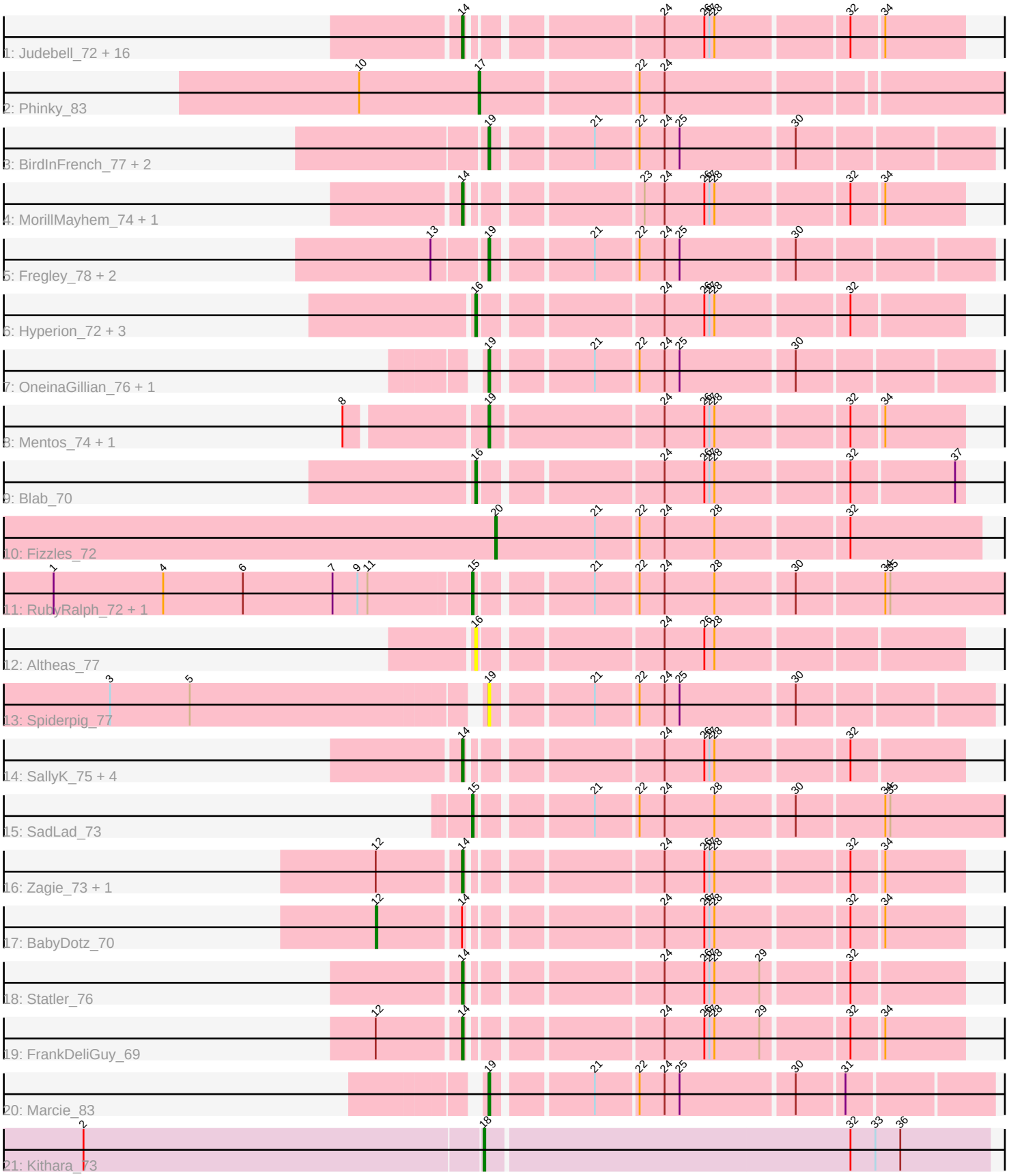
Pham 344072


1: Judebell_72 + 16
2: Phinky_83
3: BirdInFrench_77 + 2
4: MorillMayhem_74 + 1
5: Fregley_78 + 2
6: Hyperion_72 + 3
7: OneinaGillian_76 + 1
8: Mentos_74 + 1
9: Blab_70
10: Fizzles_72
11: RubyRalph_72 + 1
12: Altheas_77
13: Spiderpig_77
14: SallyK_75 + 4
15: SadLad_73
16: Zagie_73 + 1
17: BabyDotz_70
18: Statler_76
19: FrankDeliGuy_69
20: Marcie_83
21: Kithara_73

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 344072 Report

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

Pham number 344072 has 53 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Judebell_72, Nike_73, Namago_73, Phabia_72, Quammi_71, EverythinBagel_72, Viceroy_71, Rudy_70, LilCahh_71, Sillytadpoles_73, Casend_73, Wayne3_74, Zhafia_75, Teehee_73, Squash_75, Jehoshaphat_74, Llemily_72
• Track 2 : Phinky_83
• Track 3 : BirdInFrench_77, RobinRose_79, Wilca_77
• Track 4 : MorillMayhem_74, Mila11_75
• Track 5 : Fregley_78, CandC_75, Tempo_78
• Track 6 : Hyperion_72, Mashley_74, Gazebo_73, AluminumJesus_70
• Track 7 : OneinaGillian_76, KillerQueen_80
• Track 8 : Mentos_74, SlySloth_74
• Track 9 : Blab_70
• Track 10 : Fizzles_72
• Track 11 : RubyRalph_72, Fransoyer_71
• Track 12 : Altheas_77
• Track 13 : Spiderpig_77
• Track 14 : SallyK_75, Lonelysoil_70, WheelerS25_78, StrawberryJamm_77, Rowlf_70
• Track 15 : SadLad_73
• Track 16 : Zagie_73, Tissue_74
• Track 17 : BabyDotz_70
• Track 18 : Statler_76
• Track 19 : FrankDeliGuy_69
• Track 20 : Marcie_83
• Track 21 : Kithara_73

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 27 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Casend_73, EverythinBagel_72, FrankDeliGuy_69, Jehoshaphat_74, Judebell_72, LilCahh_71, Llemily_72, Lonelysoil_70, Mila11_75, MorillMayhem_74, Namago_73, Nike_73, Phabia_72, Quammi_71, Rowlf_70, Rudy_70, SallyK_75, Sillytadpoles_73,

Squash_75, Statler_76, StrawberryJamm_77, Teehee_73, Tissue_74, Viceroy_71, Wayne3_74, WheelerS25_78, Zagie_73, Zhafia_75,

Genes that have the "Most Annotated" start but do not call it:
• BabyDotz_70,

Genes that do not have the "Most Annotated" start:
• Altheas_77, AluminumJesus_70, BirdInFrench_77, Blab_70, CandC_75, Fizzles_72, Fransoyer_71, Fregley_78, Gazebo_73, Hyperion_72, KillerQueen_80, Kithara_73, Marcie_83, Mashley_74, Mentos_74, OneinaGillian_76, Phinky_83, RobinRose_79, RubyRalph_72, SadLad_73, SlySloth_74, Spiderpig_77, Tempo_78, Wilca_77,

Summary by start number:

Start 12:
• Found in 4 of 53 (7.5%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 25.0% of time when present
• Phage (with cluster) where this start called: BabyDotz_70 (EG),

Start 14:
• Found in 29 of 53 (54.7%) of genes in pham
• Manual Annotations of this start: 27 of 50
• Called 96.6% of time when present
• Phage (with cluster) where this start called: Casend_73 (EG), EverythinBagel_72 (EG), FrankDeliGuy_69 (EG), Jehoshaphat_74 (EG), Judebell_72 (EG), LilCahh_71 (EG), Llemily_72 (EG), Lonelysoil_70 (EG), Mila11_75 (EG), MorillMayhem_74 (EG), Namago_73 (EG), Nike_73 (EG), Phabia_72 (EG), Quammi_71 (EG), Rowlf_70 (EG), Rudy_70 (EG), SallyK_75 (EG), Sillytadpoles_73 (EG), Squash_75 (EG), Statler_76 (EG), StrawberryJamm_77 (EG), Teehee_73 (EG), Tissue_74 (EG), Viceroy_71 (EG), Wayne3_74 (EG), WheelerS25_78 (EG), Zagie_73 (EG), Zhafia_75 (EG),

Start 15:
• Found in 3 of 53 (5.7%) of genes in pham
• Manual Annotations of this start: 3 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_71 (EG), RubyRalph_72 (EG), SadLad_73 (EG),

Start 16:
• Found in 6 of 53 (11.3%) of genes in pham
• Manual Annotations of this start: 5 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_77 (EG), AluminumJesus_70 (EG), Blab_70 (EG), Gazebo_73 (EG), Hyperion_72 (EG), Mashley_74 (EG),

Start 17:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phinky_83 (EG),

Start 18:

• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_73 (singleton),

Start 19:
• Found in 12 of 53 (22.6%) of genes in pham
• Manual Annotations of this start: 11 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_77 (EG), CandC_75 (EG), Fregley_78 (EG), KillerQueen_80 (EG), Marcie_83 (EG), Mentos_74 (EG), OneinaGillian_76 (EG), RobinRose_79 (EG), SlySloth_74 (EG), Spiderpig_77 (EG), Tempo_78 (EG), Wilca_77 (EG),

Start 20:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fizzles_72 (EG),

Summary by clusters:

There are 2 clusters represented in this pham: EG, singleton,

Info for manual annotations of cluster EG:
•Start number 12 was manually annotated 1 time for cluster EG.
•Start number 14 was manually annotated 27 times for cluster EG.
•Start number 15 was manually annotated 3 times for cluster EG.
•Start number 16 was manually annotated 5 times for cluster EG.
•Start number 17 was manually annotated 1 time for cluster EG.
•Start number 19 was manually annotated 11 times for cluster EG.
•Start number 20 was manually annotated 1 time for cluster EG.

Gene Information:

Gene: Altheas_77 Start: 51282, Stop: 51013, Start Num: 16
Candidate Starts for Altheas_77:
(Start: 16 @51282 has 5 MA's), (24, 51183), (26, 51159), (28, 51153),

Gene: AluminumJesus_70 Start: 49888, Stop: 49619, Start Num: 16
Candidate Starts for AluminumJesus_70:
(Start: 16 @49888 has 5 MA's), (24, 49789), (26, 49765), (27, 49762), (28, 49759), (32, 49684),

Gene: BabyDotz_70 Start: 51169, Stop: 50849, Start Num: 12
Candidate Starts for BabyDotz_70:
(Start: 12 @51169 has 1 MA's), (Start: 14 @51121 has 27 MA's), (24, 51019), (26, 50995), (27, 50992), (28, 50989), (32, 50914), (34, 50896),

Gene: BirdInFrench_77 Start: 50673, Stop: 50395, Start Num: 19
Candidate Starts for BirdInFrench_77:
(Start: 19 @50673 has 11 MA's), (21, 50619), (22, 50595), (24, 50580), (25, 50571), (30, 50505),

Gene: Blab_70 Start: 50179, Stop: 49910, Start Num: 16
Candidate Starts for Blab_70:
(Start: 16 @50179 has 5 MA's), (24, 50080), (26, 50056), (27, 50053), (28, 50050), (32, 49975), (37, 49915),

Gene: CandC_75 Start: 50039, Stop: 49761, Start Num: 19
Candidate Starts for CandC_75:
(13, 50069), (Start: 19 @50039 has 11 MA's), (21, 49985), (22, 49961), (24, 49946), (25, 49937), (30, 49871),

Gene: Casend_73 Start: 50678, Stop: 50406, Start Num: 14
Candidate Starts for Casend_73:
(Start: 14 @50678 has 27 MA's), (24, 50576), (26, 50552), (27, 50549), (28, 50546), (32, 50471), (34, 50453),

Gene: EverythinBagel_72 Start: 50512, Stop: 50240, Start Num: 14
Candidate Starts for EverythinBagel_72:
(Start: 14 @50512 has 27 MA's), (24, 50410), (26, 50386), (27, 50383), (28, 50380), (32, 50305), (34, 50287),

Gene: Fizzles_72 Start: 50172, Stop: 49891, Start Num: 20
Candidate Starts for Fizzles_72:
(Start: 20 @50172 has 1 MA's), (21, 50112), (22, 50088), (24, 50073), (28, 50043), (32, 49968),

Gene: FrankDeliGuy_69 Start: 50123, Stop: 49851, Start Num: 14
Candidate Starts for FrankDeliGuy_69:
(Start: 12 @50171 has 1 MA's), (Start: 14 @50123 has 27 MA's), (24, 50021), (26, 49997), (27, 49994), (28, 49991), (29, 49964), (32, 49916), (34, 49898),

Gene: Fransoyer_71 Start: 50342, Stop: 50022, Start Num: 15
Candidate Starts for Fransoyer_71:
(1, 50588), (4, 50522), (6, 50474), (7, 50420), (9, 50405), (11, 50399), (Start: 15 @50342 has 3 MA's), (21, 50282), (22, 50258), (24, 50243), (28, 50213), (30, 50168), (34, 50117), (35, 50114),

Gene: Fregley_78 Start: 50388, Stop: 50110, Start Num: 19
Candidate Starts for Fregley_78:
(13, 50418), (Start: 19 @50388 has 11 MA's), (21, 50334), (22, 50310), (24, 50295), (25, 50286), (30, 50220),

Gene: Gazebo_73 Start: 50838, Stop: 50569, Start Num: 16
Candidate Starts for Gazebo_73:
(Start: 16 @50838 has 5 MA's), (24, 50739), (26, 50715), (27, 50712), (28, 50709), (32, 50634),

Gene: Hyperion_72 Start: 50369, Stop: 50100, Start Num: 16
Candidate Starts for Hyperion_72:
(Start: 16 @50369 has 5 MA's), (24, 50270), (26, 50246), (27, 50243), (28, 50240), (32, 50165),

Gene: Jehoshaphat_74 Start: 50946, Stop: 50674, Start Num: 14
Candidate Starts for Jehoshaphat_74:
(Start: 14 @50946 has 27 MA's), (24, 50844), (26, 50820), (27, 50817), (28, 50814), (32, 50739), (34, 50721),

Gene: Judebell_72 Start: 50170, Stop: 49898, Start Num: 14
Candidate Starts for Judebell_72:
(Start: 14 @50170 has 27 MA's), (24, 50068), (26, 50044), (27, 50041), (28, 50038), (32, 49963), (34, 49945),

Gene: KillerQueen_80 Start: 50846, Stop: 50568, Start Num: 19
Candidate Starts for KillerQueen_80:
(Start: 19 @50846 has 11 MA's), (21, 50792), (22, 50768), (24, 50753), (25, 50744), (30, 50678),

Gene: Kithara_73 Start: 52498, Stop: 52199, Start Num: 18
Candidate Starts for Kithara_73:
(2, 52735), (Start: 18 @52498 has 1 MA's), (32, 52282), (33, 52267), (36, 52252),

Gene: LilCahh_71 Start: 50143, Stop: 49871, Start Num: 14
Candidate Starts for LilCahh_71:
(Start: 14 @50143 has 27 MA's), (24, 50041), (26, 50017), (27, 50014), (28, 50011), (32, 49936), (34, 49918),

Gene: Llemily_72 Start: 49722, Stop: 49450, Start Num: 14
Candidate Starts for Llemily_72:
(Start: 14 @49722 has 27 MA's), (24, 49620), (26, 49596), (27, 49593), (28, 49590), (32, 49515), (34, 49497),

Gene: Lonelysoil_70 Start: 49482, Stop: 49210, Start Num: 14
Candidate Starts for Lonelysoil_70:
(Start: 14 @49482 has 27 MA's), (24, 49380), (26, 49356), (27, 49353), (28, 49350), (32, 49275),

Gene: Marcie_83 Start: 51613, Stop: 51335, Start Num: 19
Candidate Starts for Marcie_83:
(Start: 19 @51613 has 11 MA's), (21, 51559), (22, 51535), (24, 51520), (25, 51511), (30, 51445), (31, 51418),

Gene: Mashley_74 Start: 50891, Stop: 50622, Start Num: 16
Candidate Starts for Mashley_74:
(Start: 16 @50891 has 5 MA's), (24, 50792), (26, 50768), (27, 50765), (28, 50762), (32, 50687),

Gene: Mentos_74 Start: 51391, Stop: 51122, Start Num: 19
Candidate Starts for Mentos_74:
(8, 51469), (Start: 19 @51391 has 11 MA's), (24, 51292), (26, 51268), (27, 51265), (28, 51262), (32, 51187), (34, 51169),

Gene: Mila11_75 Start: 52102, Stop: 51830, Start Num: 14
Candidate Starts for Mila11_75:
(Start: 14 @52102 has 27 MA's), (23, 52012), (24, 52000), (26, 51976), (27, 51973), (28, 51970), (32, 51895), (34, 51877),

Gene: MorillMayhem_74 Start: 50941, Stop: 50669, Start Num: 14
Candidate Starts for MorillMayhem_74:
(Start: 14 @50941 has 27 MA's), (23, 50851), (24, 50839), (26, 50815), (27, 50812), (28, 50809), (32, 50734), (34, 50716),

Gene: Namago_73 Start: 49786, Stop: 49514, Start Num: 14
Candidate Starts for Namago_73:

(Start: 14 @49786 has 27 MA's), (24, 49684), (26, 49660), (27, 49657), (28, 49654), (32, 49579), (34, 49561),

Gene: Nike_73 Start: 51086, Stop: 50814, Start Num: 14
Candidate Starts for Nike_73:
(Start: 14 @51086 has 27 MA's), (24, 50984), (26, 50960), (27, 50957), (28, 50954), (32, 50879), (34, 50861),

Gene: OneinaGillian_76 Start: 50251, Stop: 49973, Start Num: 19
Candidate Starts for OneinaGillian_76:
(Start: 19 @50251 has 11 MA's), (21, 50197), (22, 50173), (24, 50158), (25, 50149), (30, 50083),

Gene: Phabia_72 Start: 50137, Stop: 49865, Start Num: 14
Candidate Starts for Phabia_72:
(Start: 14 @50137 has 27 MA's), (24, 50035), (26, 50011), (27, 50008), (28, 50005), (32, 49930), (34, 49912),

Gene: Phinky_83 Start: 53441, Stop: 53133, Start Num: 17
Candidate Starts for Phinky_83:
(10, 53513), (Start: 17 @53441 has 1 MA's), (22, 53351), (24, 53336),

Gene: Quammi_71 Start: 49837, Stop: 49565, Start Num: 14
Candidate Starts for Quammi_71:
(Start: 14 @49837 has 27 MA's), (24, 49735), (26, 49711), (27, 49708), (28, 49705), (32, 49630), (34, 49612),

Gene: RobinRose_79 Start: 50795, Stop: 50517, Start Num: 19
Candidate Starts for RobinRose_79:
(Start: 19 @50795 has 11 MA's), (21, 50741), (22, 50717), (24, 50702), (25, 50693), (30, 50627),

Gene: Rowlf_70 Start: 50044, Stop: 49772, Start Num: 14
Candidate Starts for Rowlf_70:
(Start: 14 @50044 has 27 MA's), (24, 49942), (26, 49918), (27, 49915), (28, 49912), (32, 49837),

Gene: RubyRalph_72 Start: 50116, Stop: 49796, Start Num: 15
Candidate Starts for RubyRalph_72:
(1, 50362), (4, 50296), (6, 50248), (7, 50194), (9, 50179), (11, 50173), (Start: 15 @50116 has 3 MA's), (21, 50056), (22, 50032), (24, 50017), (28, 49987), (30, 49942), (34, 49891), (35, 49888),

Gene: Rudy_70 Start: 49873, Stop: 49601, Start Num: 14
Candidate Starts for Rudy_70:
(Start: 14 @49873 has 27 MA's), (24, 49771), (26, 49747), (27, 49744), (28, 49741), (32, 49666), (34, 49648),

Gene: SadLad_73 Start: 51022, Stop: 50702, Start Num: 15
Candidate Starts for SadLad_73:
(Start: 15 @51022 has 3 MA's), (21, 50962), (22, 50938), (24, 50923), (28, 50893), (30, 50848), (34, 50797), (35, 50794),

Gene: SallyK_75 Start: 51575, Stop: 51303, Start Num: 14
Candidate Starts for SallyK_75:
(Start: 14 @51575 has 27 MA's), (24, 51473), (26, 51449), (27, 51446), (28, 51443), (32, 51368),

Gene: Sillytadpoles_73 Start: 49710, Stop: 49438, Start Num: 14
Candidate Starts for Sillytadpoles_73:
(Start: 14 @49710 has 27 MA's), (24, 49608), (26, 49584), (27, 49581), (28, 49578), (32, 49503), (34, 49485),

Gene: SlySloth_74 Start: 50676, Stop: 50407, Start Num: 19
Candidate Starts for SlySloth_74:
(8, 50754), (Start: 19 @50676 has 11 MA's), (24, 50577), (26, 50553), (27, 50550), (28, 50547), (32, 50472), (34, 50454),

Gene: Spiderpig_77 Start: 50662, Stop: 50384, Start Num: 19
Candidate Starts for Spiderpig_77:
(3, 50875), (5, 50827), (Start: 19 @50662 has 11 MA's), (21, 50608), (22, 50584), (24, 50569), (25, 50560), (30, 50494),

Gene: Squash_75 Start: 50808, Stop: 50536, Start Num: 14
Candidate Starts for Squash_75:
(Start: 14 @50808 has 27 MA's), (24, 50706), (26, 50682), (27, 50679), (28, 50676), (32, 50601), (34, 50583),

Gene: Statler_76 Start: 50760, Stop: 50488, Start Num: 14
Candidate Starts for Statler_76:
(Start: 14 @50760 has 27 MA's), (24, 50658), (26, 50634), (27, 50631), (28, 50628), (29, 50601), (32, 50553),

Gene: StrawberryJamm_77 Start: 49978, Stop: 49706, Start Num: 14
Candidate Starts for StrawberryJamm_77:
(Start: 14 @49978 has 27 MA's), (24, 49876), (26, 49852), (27, 49849), (28, 49846), (32, 49771),

Gene: Teehee_73 Start: 50943, Stop: 50671, Start Num: 14
Candidate Starts for Teehee_73:
(Start: 14 @50943 has 27 MA's), (24, 50841), (26, 50817), (27, 50814), (28, 50811), (32, 50736), (34, 50718),

Gene: Tempo_78 Start: 50735, Stop: 50457, Start Num: 19
Candidate Starts for Tempo_78:
(13, 50765), (Start: 19 @50735 has 11 MA's), (21, 50681), (22, 50657), (24, 50642), (25, 50633), (30, 50567),

Gene: Tissue_74 Start: 50438, Stop: 50166, Start Num: 14
Candidate Starts for Tissue_74:
(Start: 12 @50486 has 1 MA's), (Start: 14 @50438 has 27 MA's), (24, 50336), (26, 50312), (27, 50309), (28, 50306), (32, 50231), (34, 50213),

Gene: Viceroy_71 Start: 49843, Stop: 49571, Start Num: 14
Candidate Starts for Viceroy_71:
(Start: 14 @49843 has 27 MA's), (24, 49741), (26, 49717), (27, 49714), (28, 49711), (32, 49636), (34, 49618),

Gene: Wayne3_74 Start: 50706, Stop: 50434, Start Num: 14
Candidate Starts for Wayne3_74:
(Start: 14 @50706 has 27 MA's), (24, 50604), (26, 50580), (27, 50577), (28, 50574), (32, 50499), (34, 50481),

Gene: WheelerS25_78 Start: 51341, Stop: 51069, Start Num: 14
Candidate Starts for WheelerS25_78:
(Start: 14 @51341 has 27 MA's), (24, 51239), (26, 51215), (27, 51212), (28, 51209), (32, 51134),

Gene: Wilca_77 Start: 50673, Stop: 50395, Start Num: 19
Candidate Starts for Wilca_77:
(Start: 19 @50673 has 11 MA's), (21, 50619), (22, 50595), (24, 50580), (25, 50571), (30, 50505),

Gene: Zagie_73 Start: 50255, Stop: 49983, Start Num: 14
Candidate Starts for Zagie_73:
(Start: 12 @50303 has 1 MA's), (Start: 14 @50255 has 27 MA's), (24, 50153), (26, 50129), (27, 50126), (28, 50123), (32, 50048), (34, 50030),

Gene: Zhafia_75 Start: 50507, Stop: 50235, Start Num: 14
Candidate Starts for Zhafia_75:
(Start: 14 @50507 has 27 MA's), (24, 50405), (26, 50381), (27, 50378), (28, 50375), (32, 50300), (34, 50282),