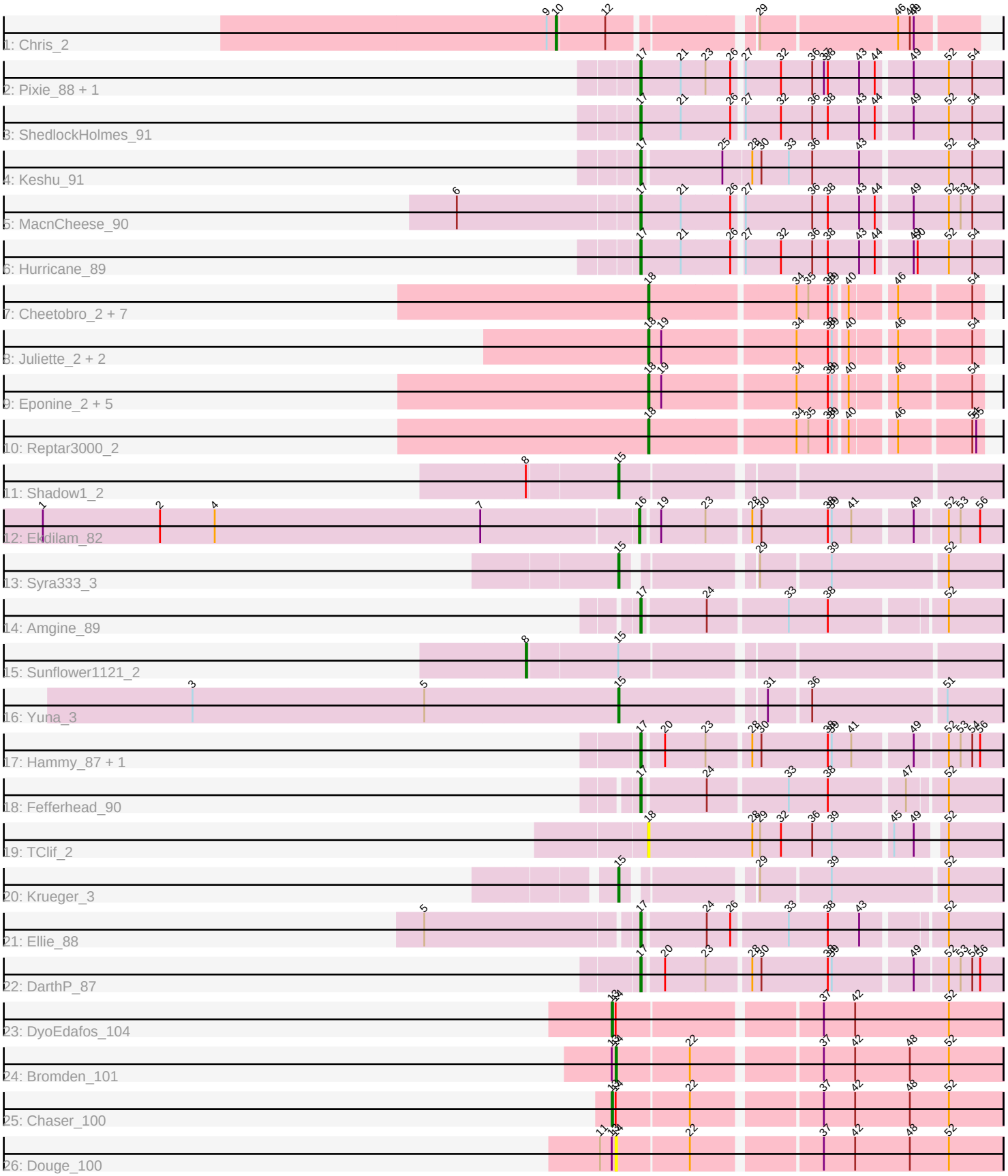
Pham 163722


1: Chris_2
2: Pixie_88 + 1
3: ShedlockHolmes_91
4: Keshu_91
5: MacnCheese_90
6: Hurricane_89
7: Cheetobro_2 + 7
8: Juliette_2 + 2
9: Eponine_2 + 5
10: Reptar3000_2
11: Shadow1_2
12: Ekdilam_82
13: Syra333_3
14: Amgine_89
15: Sunflower1121_2
16: Yuna_3
17: Hammy_87 + 1
18: Fefferhead_90
19: TClif_2
20: Krueger_3
21: Ellie_88
22: DarthP_87
23: DyoEdafos_104
24: Bromden_101
25: Chaser_100
26: Douge_100

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 163722 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163722 has 42 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Chris_2
• Track 2 : Pixie_88, TBond007_85
• Track 3 : ShedlockHolmes_91
• Track 4 : Keshu_91
• Track 5 : MacnCheese_90
• Track 6 : Hurricane_89
• Track 7 : Cheetobro_2, Slarp_2, Taquito_2, OmniCritical_2, SamScheppers_2, Patt_2, Chancellor_2, Mitti_2
• Track 8 : Juliette_2, Malthus_2, Ruthiejr_2
• Track 9 : Eponine_2, Fionnbharth_2, Y10_02, JF1_2, Y2_02, Wintermute_2
• Track 10 : Reptar3000_2
• Track 11 : Shadow1_2
• Track 12 : Ekdilam_82
• Track 13 : Syra333_3
• Track 14 : Amgine_89
• Track 15 : Sunflower1121_2
• Track 16 : Yuna_3
• Track 17 : Hammy_87, Amohnition_87
• Track 18 : Fefferhead_90
• Track 19 : TClif_2
• Track 20 : Krueger_3
• Track 21 : Ellie_88
• Track 22 : DarthP_87
• Track 23 : DyoEdafos_104
• Track 24 : Bromden_101
• Track 25 : Chaser_100
• Track 26 : Douge_100

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

The start number called the most often in the published annotations is 18, it was called in 18 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Chancellor_2, Cheetobro_2, Eponine_2, Fionnbharth_2, JF1_2, Juliette_2, Malthus_2, Mitti_2, OmniCritical_2, Patt_2, Reptar3000_2, Ruthiejr_2, SamScheppers_2, Slarp_2, TClif_2, Taquito_2, Wintermute_2, Y10_02, Y2_02,

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

Genes that do not have the "Most Annotated" start:
• Amgine_89, Amohnition_87, Bromden_101, Chaser_100, Chris_2, DarthP_87, Douge_100, DyoEdafos_104, Ekdilam_82, Ellie_88, Fefferhead_90, Hammy_87, Hurricane_89, Keshu_91, Krueger_3, MacnCheese_90, Pixie_88, Shadow1_2, ShedlockHolmes_91, Sunflower1121_2, Syra333_3, TBond007_85, Yuna_3,

Summary by start number:

Start 8:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sunflower1121_2 (K6),

Start 10:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chris_2 (K1),

Start 13:
• Found in 4 of 42 (9.5%) of genes in pham
• Manual Annotations of this start: 2 of 40
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Chaser_100 (L4), DyoEdafos_104 (L4),

Start 14:
• Found in 4 of 42 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bromden_101 (L4), Douge_100 (L4),

Start 15:
• Found in 5 of 42 (11.9%) of genes in pham
• Manual Annotations of this start: 4 of 40
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Krueger_3 (K6), Shadow1_2 (K6), Syra333_3 (K6), Yuna_3 (K6),

Start 16:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ekdilam_82 (K6),

Start 17:

• Found in 12 of 42 (28.6%) of genes in pham
• Manual Annotations of this start: 12 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_89 (K6), Amohnition_87 (K6), DarthP_87 (K6), Ellie_88 (K6), Fefferhead_90 (K6), Hammy_87 (K6), Hurricane_89 (K3), Keshu_91 (K3), MacnCheese_90 (K3), Pixie_88 (K3), ShedlockHolmes_91 (K3), TBond007_85 (K3),

Start 18:
• Found in 19 of 42 (45.2%) of genes in pham
• Manual Annotations of this start: 18 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chancellor_2 (K4), Cheetobro_2 (K4), Eponine_2 (K4), Fionnbharth_2 (K4), JF1_2 (K4), Juliette_2 (K4), Malthus_2 (K4), Mitti_2 (K4), OmniCritical_2 (K4), Patt_2 (K4), Reptar3000_2 (K4), Ruthiejr_2 (K4), SamScheppers_2 (K4), Slarp_2 (K4), TClif_2 (K6), Taquito_2 (K4), Wintermute_2 (K4), Y10_02 (K4), Y2_02 (K4),

Summary by clusters:

There are 5 clusters represented in this pham: L4, K3, K1, K6, K4,

Info for manual annotations of cluster K1:
•Start number 10 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K3:
•Start number 17 was manually annotated 6 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 18 was manually annotated 18 times for cluster K4.

Info for manual annotations of cluster K6:
•Start number 8 was manually annotated 1 time for cluster K6.
•Start number 15 was manually annotated 4 times for cluster K6.
•Start number 16 was manually annotated 1 time for cluster K6.
•Start number 17 was manually annotated 6 times for cluster K6.

Info for manual annotations of cluster L4:
•Start number 13 was manually annotated 2 times for cluster L4.
•Start number 14 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Amgine_89 Start: 58064, Stop: 58318, Start Num: 17
Candidate Starts for Amgine_89:
(Start: 17 @58064 has 12 MA's), (24, 58109), (33, 58166), (38, 58196), (52, 58277),

Gene: Amohnition_87 Start: 57065, Stop: 57322, Start Num: 17
Candidate Starts for Amohnition_87:
(Start: 17 @57065 has 12 MA's), (20, 57080), (23, 57110), (28, 57140), (30, 57146), (38, 57197), (39, 57200), (41, 57215), (49, 57257), (52, 57281), (53, 57290), (54, 57299), (56, 57305),

Gene: Bromden_101 Start: 62440, Stop: 62721, Start Num: 14
Candidate Starts for Bromden_101:
(Start: 13 @62437 has 2 MA's), (Start: 14 @62440 has 1 MA's), (22, 62494), (37, 62584), (42, 62608), (48, 62650), (52, 62680),

Gene: Chancellor_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Chancellor_2:
(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Chaser_100 Start: 61053, Stop: 61337, Start Num: 13
Candidate Starts for Chaser_100:
(Start: 13 @61053 has 2 MA's), (Start: 14 @61056 has 1 MA's), (22, 61110), (37, 61200), (42, 61224), (48, 61266), (52, 61296),

Gene: Cheetobro_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Cheetobro_2:
(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Chris_2 Start: 375, Stop: 665, Start Num: 10
Candidate Starts for Chris_2:
(9, 369), (Start: 10 @375 has 1 MA's), (12, 411), (29, 507), (46, 609), (48, 618), (49, 621),

Gene: DarthP_87 Start: 56918, Stop: 57175, Start Num: 17
Candidate Starts for DarthP_87:
(Start: 17 @56918 has 12 MA's), (20, 56933), (23, 56963), (28, 56993), (30, 56999), (38, 57050), (39, 57053), (49, 57110), (52, 57134), (53, 57143), (54, 57152), (56, 57158),

Gene: Douge_100 Start: 61124, Stop: 61405, Start Num: 14
Candidate Starts for Douge_100:
(11, 61112), (Start: 13 @61121 has 2 MA's), (Start: 14 @61124 has 1 MA's), (22, 61178), (37, 61268), (42, 61292), (48, 61334), (52, 61364),

Gene: DyoEdafos_104 Start: 61681, Stop: 61965, Start Num: 13
Candidate Starts for DyoEdafos_104:
(Start: 13 @61681 has 2 MA's), (Start: 14 @61684 has 1 MA's), (37, 61828), (42, 61852), (52, 61924),

Gene: Ekdilam_82 Start: 56617, Stop: 56874, Start Num: 16
Candidate Starts for Ekdilam_82:
(1, 56164), (2, 56254), (4, 56296), (7, 56500), (Start: 16 @56617 has 1 MA's), (19, 56629), (23, 56662), (28, 56692), (30, 56698), (38, 56749), (39, 56752), (41, 56767), (49, 56809), (52, 56833), (53, 56842), (56, 56857),

Gene: Ellie_88 Start: 57234, Stop: 57488, Start Num: 17
Candidate Starts for Ellie_88:
(5, 57078), (Start: 17 @57234 has 12 MA's), (24, 57279), (26, 57297), (33, 57336), (38, 57366), (43, 57390), (52, 57447),

Gene: Eponine_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Eponine_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Fefferhead_90 Start: 57025, Stop: 57279, Start Num: 17

Candidate Starts for Fefferhead_90:
(Start: 17 @57025 has 12 MA's), (24, 57070), (33, 57127), (38, 57157), (47, 57211), (52, 57238),

Gene: Fionnbharth_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Fionnbharth_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Hammy_87 Start: 56908, Stop: 57165, Start Num: 17
Candidate Starts for Hammy_87:
(Start: 17 @56908 has 12 MA's), (20, 56923), (23, 56953), (28, 56983), (30, 56989), (38, 57040), (39, 57043), (41, 57058), (49, 57100), (52, 57124), (53, 57133), (54, 57142), (56, 57148),

Gene: Hurricane_89 Start: 56085, Stop: 56348, Start Num: 17
Candidate Starts for Hurricane_89:
(Start: 17 @56085 has 12 MA's), (21, 56115), (26, 56151), (27, 56157), (32, 56184), (36, 56208), (38, 56220), (43, 56244), (44, 56256), (49, 56280), (50, 56283), (52, 56307), (54, 56325),

Gene: JF1_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for JF1_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Juliette_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Juliette_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Keshu_91 Start: 56377, Stop: 56640, Start Num: 17
Candidate Starts for Keshu_91:
(Start: 17 @56377 has 12 MA's), (25, 56434), (28, 56455), (30, 56461), (33, 56482), (36, 56500), (43, 56536), (52, 56599), (54, 56617),

Gene: Krueger_3 Start: 500, Stop: 760, Start Num: 15
Candidate Starts for Krueger_3:
(Start: 15 @500 has 4 MA's), (29, 584), (39, 635), (52, 719),

Gene: MacnCheese_90 Start: 56613, Stop: 56876, Start Num: 17
Candidate Starts for MacnCheese_90:
(6, 56478), (Start: 17 @56613 has 12 MA's), (21, 56643), (26, 56679), (27, 56685), (36, 56736), (38, 56748), (43, 56772), (44, 56784), (49, 56808), (52, 56835), (53, 56844), (54, 56853),

Gene: Malthus_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Malthus_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Mitti_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Mitti_2:
(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: OmniCritical_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for OmniCritical_2:
(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Patt_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Patt_2:

(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Pixie_88 Start: 55789, Stop: 56052, Start Num: 17
Candidate Starts for Pixie_88:
(Start: 17 @55789 has 12 MA's), (21, 55819), (23, 55837), (26, 55855), (27, 55861), (32, 55888), (36, 55912), (37, 55921), (38, 55924), (43, 55948), (44, 55960), (49, 55984), (52, 56011), (54, 56029),

Gene: Reptar3000_2 Start: 250, Stop: 480, Start Num: 18
Candidate Starts for Reptar3000_2:
(Start: 18 @250 has 18 MA's), (34, 355), (35, 364), (38, 379), (39, 382), (40, 391), (46, 421), (54, 472), (55, 475),

Gene: Ruthiejr_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Ruthiejr_2:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: SamScheppers_2 Start: 250, Stop: 480, Start Num: 18
Candidate Starts for SamScheppers_2:
(Start: 18 @250 has 18 MA's), (34, 355), (35, 364), (38, 379), (39, 382), (40, 391), (46, 421), (54, 472),

Gene: Shadow1_2 Start: 396, Stop: 665, Start Num: 15
Candidate Starts for Shadow1_2:
(Start: 8 @330 has 1 MA's), (Start: 15 @396 has 4 MA's),

Gene: ShedlockHolmes_91 Start: 56212, Stop: 56475, Start Num: 17
Candidate Starts for ShedlockHolmes_91:
(Start: 17 @56212 has 12 MA's), (21, 56242), (26, 56278), (27, 56284), (32, 56311), (36, 56335), (38, 56347), (43, 56371), (44, 56383), (49, 56407), (52, 56434), (54, 56452),

Gene: Slarp_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Slarp_2:
(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Sunflower1121_2 Start: 329, Stop: 664, Start Num: 8
Candidate Starts for Sunflower1121_2:
(Start: 8 @329 has 1 MA's), (Start: 15 @395 has 4 MA's),

Gene: Syra333_3 Start: 509, Stop: 769, Start Num: 15
Candidate Starts for Syra333_3:
(Start: 15 @509 has 4 MA's), (29, 593), (39, 644), (52, 728),

Gene: TBond007_85 Start: 55787, Stop: 56050, Start Num: 17
Candidate Starts for TBond007_85:
(Start: 17 @55787 has 12 MA's), (21, 55817), (23, 55835), (26, 55853), (27, 55859), (32, 55886), (36, 55910), (37, 55919), (38, 55922), (43, 55946), (44, 55958), (49, 55982), (52, 56009), (54, 56027),

Gene: TClif_2 Start: 240, Stop: 494, Start Num: 18
Candidate Starts for TClif_2:
(Start: 18 @240 has 18 MA's), (28, 318), (29, 324), (32, 339), (36, 363), (39, 378), (45, 420), (49, 435), (52, 453),

Gene: Taquito_2 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Taquito_2:

(Start: 18 @251 has 18 MA's), (34, 356), (35, 365), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Wintermute_2 Start: 250, Stop: 480, Start Num: 18
Candidate Starts for Wintermute_2:
(Start: 18 @250 has 18 MA's), (19, 259), (34, 355), (38, 379), (39, 382), (40, 391), (46, 421), (54, 472),

Gene: Y10_02 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Y10_02:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Y2_02 Start: 251, Stop: 481, Start Num: 18
Candidate Starts for Y2_02:
(Start: 18 @251 has 18 MA's), (19, 260), (34, 356), (38, 380), (39, 383), (40, 392), (46, 422), (54, 473),

Gene: Yuna_3 Start: 525, Stop: 797, Start Num: 15
Candidate Starts for Yuna_3:
(3, 201), (5, 378), (Start: 15 @525 has 4 MA's), (31, 627), (36, 657), (51, 756),