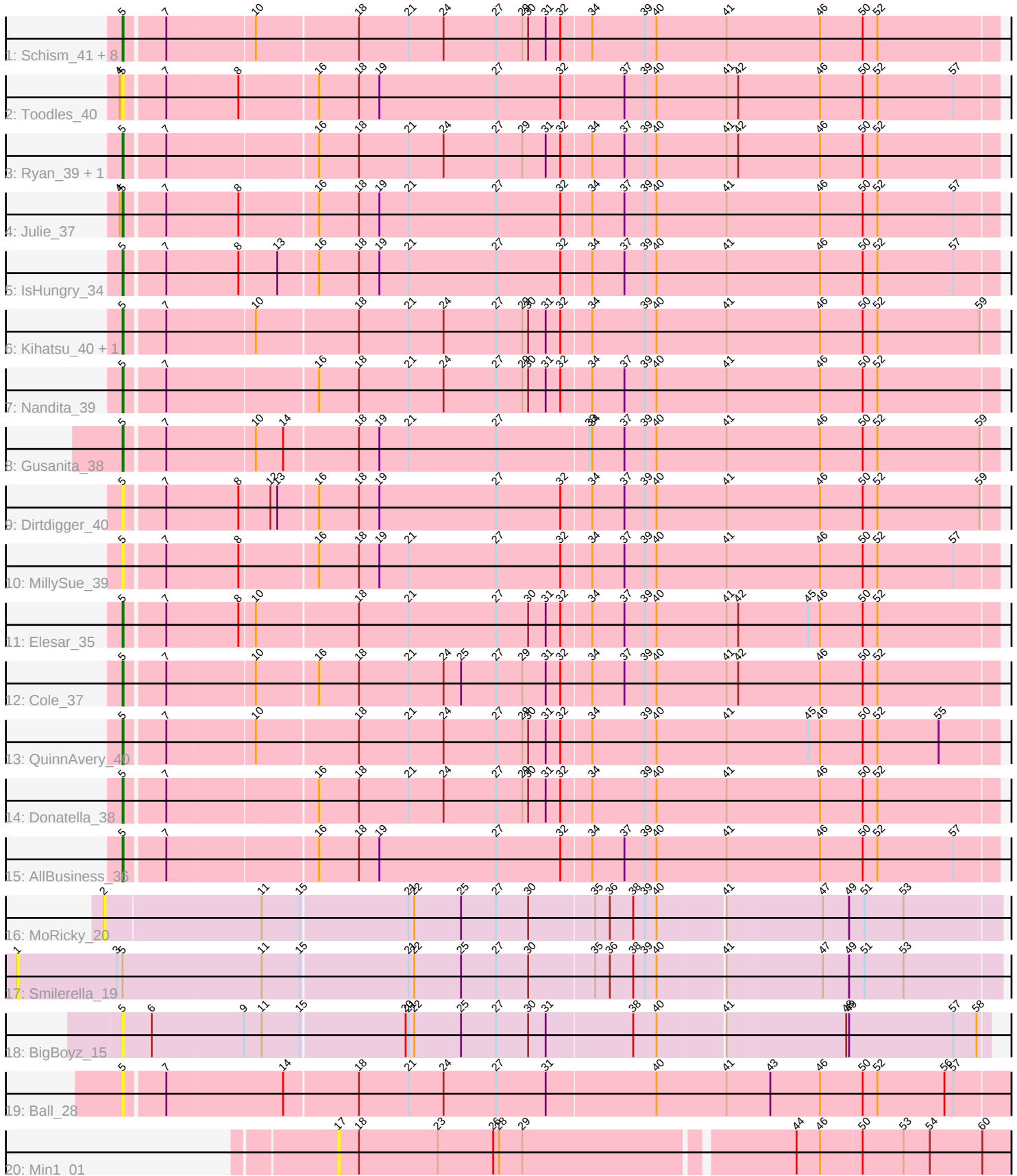


Pham 280727



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 280727 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280727 has 30 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Schism_41, Ichiang_36, Halloween_36, Popper_37, ToastyOats_41, BigSherm_37, Guinevere_39, Lenoxika_39, GoodLuckBabe_39
- Track 2 : Toodles_40
- Track 3 : Ryan_39, Yonex_39
- Track 4 : Julie_37
- Track 5 : IsHungry_34
- Track 6 : Kihatsu_40, Zaheer_39
- Track 7 : Nandita_39
- Track 8 : Gusanita_38
- Track 9 : DirtDigger_40
- Track 10 : MillySue_39
- Track 11 : Elesar_35
- Track 12 : Cole_37
- Track 13 : QuinnAvery_40
- Track 14 : Donatella_38
- Track 15 : AllBusiness_36
- Track 16 : MoRicky_20
- Track 17 : Smilerella_19
- Track 18 : BigBoyz_15
- Track 19 : Ball_28
- Track 20 : Min1_01

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

The start number called the most often in the published annotations is 5, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness_36, Ball_28, BigBoyz_15, BigSherm_37, Cole_37, DirtDigger_40, Donatella_38, Elesar_35, GoodLuckBabe_39, Guinevere_39, Gusanita_38, Halloween_36, Ichiang_36, IsHungry_34, Julie_37, Kihatsu_40, Lenoxika_39, MillySue_39, Nandita_39, Popper_37, QuinnAvery_40, Ryan_39, Schism_41, ToastyOats_41, Toodles_40, Yonex_39, Zaheer_39,

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

- Smilerella_19,

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

- Min1_01, MoRicky_20,

Summary by start number:

Start 1:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Smilerella_19 (GH),

Start 2:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MoRicky_20 (GH),

Start 5:

- Found in 28 of 30 (93.3%) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 96.4% of time when present
- Phage (with cluster) where this start called: AllBusiness_36 (FF), Ball_28 (singleton), BigBoyz_15 (GH), BigSherm_37 (FF), Cole_37 (FF), DirtDigger_40 (FF), Donatella_38 (FF), Elesar_35 (FF), GoodLuckBabe_39 (FF), Guinevere_39 (FF), Gusanita_38 (FF), Halloween_36 (FF), Ichiang_36 (FF), IsHungry_34 (FF), Julie_37 (FF), Kihatsu_40 (FF), Lenoxika_39 (FF), MillySue_39 (FF), Nandita_39 (FF), Popper_37 (FF), QuinnAvery_40 (FF), Ryan_39 (FF), Schism_41 (FF), ToastyOats_41 (FF), Toodles_40 (FF), Yonex_39 (FF), Zaheer_39 (FF),

Start 17:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Min1_01 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, GH,

Info for manual annotations of cluster FF:

- Start number 5 was manually annotated 17 times for cluster FF.

Gene Information:

Gene: AllBusiness_36 Start: 29466, Stop: 28591, Start Num: 5

Candidate Starts for AllBusiness_36:

(Start: 5 @29466 has 17 MA's), (7, 29427), (16, 29280), (18, 29241), (19, 29220), (27, 29100), (32, 29034), (34, 29004), (37, 28971), (39, 28950), (40, 28938), (41, 28866), (46, 28770), (50, 28728), (52, 28713), (57, 28635),

Gene: Ball_28 Start: 23533, Stop: 22643, Start Num: 5

Candidate Starts for Ball_28:

(Start: 5 @23533 has 17 MA's), (7, 23494), (14, 23377), (18, 23305), (21, 23254), (24, 23218), (27, 23164), (31, 23113), (40, 23002), (41, 22930), (43, 22885), (46, 22834), (50, 22792), (52, 22777), (56, 22708), (57, 22699),

Gene: BigBoyz_15 Start: 12973, Stop: 12104, Start Num: 5

Candidate Starts for BigBoyz_15:

(Start: 5 @12973 has 17 MA's), (6, 12943), (9, 12850), (11, 12832), (15, 12793), (20, 12688), (21, 12685), (22, 12679), (25, 12631), (27, 12595), (30, 12562), (31, 12544), (38, 12457), (40, 12433), (41, 12367), (48, 12247), (49, 12244), (57, 12139), (58, 12115),

Gene: BigSherm_37 Start: 28330, Stop: 27455, Start Num: 5

Candidate Starts for BigSherm_37:

(Start: 5 @28330 has 17 MA's), (7, 28291), (10, 28204), (18, 28105), (21, 28054), (24, 28018), (27, 27964), (29, 27937), (30, 27931), (31, 27913), (32, 27898), (34, 27868), (39, 27814), (40, 27802), (41, 27730), (46, 27634), (50, 27592), (52, 27577),

Gene: Cole_37 Start: 28322, Stop: 27447, Start Num: 5

Candidate Starts for Cole_37:

(Start: 5 @28322 has 17 MA's), (7, 28283), (10, 28196), (16, 28136), (18, 28097), (21, 28046), (24, 28010), (25, 27992), (27, 27956), (29, 27929), (31, 27905), (32, 27890), (34, 27860), (37, 27827), (39, 27806), (40, 27794), (41, 27722), (42, 27710), (46, 27626), (50, 27584), (52, 27569),

Gene: Dirtdigger_40 Start: 29049, Stop: 28174, Start Num: 5

Candidate Starts for Dirtdigger_40:

(Start: 5 @29049 has 17 MA's), (7, 29010), (8, 28938), (12, 28908), (13, 28902), (16, 28863), (18, 28824), (19, 28803), (27, 28683), (32, 28617), (34, 28587), (37, 28554), (39, 28533), (40, 28521), (41, 28449), (46, 28353), (50, 28311), (52, 28296), (59, 28191),

Gene: Donatella_38 Start: 28796, Stop: 27921, Start Num: 5

Candidate Starts for Donatella_38:

(Start: 5 @28796 has 17 MA's), (7, 28757), (16, 28610), (18, 28571), (21, 28520), (24, 28484), (27, 28430), (29, 28403), (30, 28397), (31, 28379), (32, 28364), (34, 28334), (39, 28280), (40, 28268), (41, 28196), (46, 28100), (50, 28058), (52, 28043),

Gene: Elesar_35 Start: 29248, Stop: 28373, Start Num: 5

Candidate Starts for Elesar_35:

(Start: 5 @29248 has 17 MA's), (7, 29209), (8, 29137), (10, 29122), (18, 29023), (21, 28972), (27, 28882), (30, 28849), (31, 28831), (32, 28816), (34, 28786), (37, 28753), (39, 28732), (40, 28720), (41, 28648), (42, 28636), (45, 28564), (46, 28552), (50, 28510), (52, 28495),

Gene: GoodLuckBabe_39 Start: 28904, Stop: 28029, Start Num: 5

Candidate Starts for GoodLuckBabe_39:

(Start: 5 @28904 has 17 MA's), (7, 28865), (10, 28778), (18, 28679), (21, 28628), (24, 28592), (27, 28538), (29, 28511), (30, 28505), (31, 28487), (32, 28472), (34, 28442), (39, 28388), (40, 28376), (41, 28304), (46, 28208), (50, 28166), (52, 28151),

Gene: Guinevere_39 Start: 28494, Stop: 27619, Start Num: 5

Candidate Starts for Guinevere_39:

(Start: 5 @28494 has 17 MA's), (7, 28455), (10, 28368), (18, 28269), (21, 28218), (24, 28182), (27, 28128), (29, 28101), (30, 28095), (31, 28077), (32, 28062), (34, 28032), (39, 27978), (40, 27966), (41, 27894), (46, 27798), (50, 27756), (52, 27741),

Gene: Gusanita_38 Start: 28900, Stop: 28025, Start Num: 5

Candidate Starts for Gusanita_38:

(Start: 5 @28900 has 17 MA's), (7, 28861), (10, 28774), (14, 28747), (18, 28675), (19, 28654), (21, 28624), (27, 28534), (33, 28441), (34, 28438), (37, 28405), (39, 28384), (40, 28372), (41, 28300), (46, 28204), (50, 28162), (52, 28147), (59, 28042),

Gene: Halloweekend_36 Start: 27956, Stop: 27081, Start Num: 5

Candidate Starts for Halloweekend_36:

(Start: 5 @27956 has 17 MA's), (7, 27917), (10, 27830), (18, 27731), (21, 27680), (24, 27644), (27, 27590), (29, 27563), (30, 27557), (31, 27539), (32, 27524), (34, 27494), (39, 27440), (40, 27428), (41, 27356), (46, 27260), (50, 27218), (52, 27203),

Gene: Ichiang_36 Start: 27975, Stop: 27100, Start Num: 5

Candidate Starts for Ichiang_36:

(Start: 5 @27975 has 17 MA's), (7, 27936), (10, 27849), (18, 27750), (21, 27699), (24, 27663), (27, 27609), (29, 27582), (30, 27576), (31, 27558), (32, 27543), (34, 27513), (39, 27459), (40, 27447), (41, 27375), (46, 27279), (50, 27237), (52, 27222),

Gene: IsHungry_34 Start: 26992, Stop: 26117, Start Num: 5

Candidate Starts for IsHungry_34:

(Start: 5 @26992 has 17 MA's), (7, 26953), (8, 26881), (13, 26845), (16, 26806), (18, 26767), (19, 26746), (21, 26716), (27, 26626), (32, 26560), (34, 26530), (37, 26497), (39, 26476), (40, 26464), (41, 26392), (46, 26296), (50, 26254), (52, 26239), (57, 26161),

Gene: Julie_37 Start: 28905, Stop: 28030, Start Num: 5

Candidate Starts for Julie_37:

(4, 28908), (Start: 5 @28905 has 17 MA's), (7, 28866), (8, 28794), (16, 28719), (18, 28680), (19, 28659), (21, 28629), (27, 28539), (32, 28473), (34, 28443), (37, 28410), (39, 28389), (40, 28377), (41, 28305), (46, 28209), (50, 28167), (52, 28152), (57, 28074),

Gene: Kihatsu_40 Start: 29365, Stop: 28490, Start Num: 5

Candidate Starts for Kihatsu_40:

(Start: 5 @29365 has 17 MA's), (7, 29326), (10, 29239), (18, 29140), (21, 29089), (24, 29053), (27, 28999), (29, 28972), (30, 28966), (31, 28948), (32, 28933), (34, 28903), (39, 28849), (40, 28837), (41, 28765), (46, 28669), (50, 28627), (52, 28612), (59, 28507),

Gene: Lenoxika_39 Start: 28640, Stop: 27765, Start Num: 5

Candidate Starts for Lenoxika_39:

(Start: 5 @28640 has 17 MA's), (7, 28601), (10, 28514), (18, 28415), (21, 28364), (24, 28328), (27, 28274), (29, 28247), (30, 28241), (31, 28223), (32, 28208), (34, 28178), (39, 28124), (40, 28112), (41, 28040), (46, 27944), (50, 27902), (52, 27887),

Gene: MillySue_39 Start: 28748, Stop: 27873, Start Num: 5

Candidate Starts for MillySue_39:

(Start: 5 @28748 has 17 MA's), (7, 28709), (8, 28637), (16, 28562), (18, 28523), (19, 28502), (21, 28472), (27, 28382), (32, 28316), (34, 28286), (37, 28253), (39, 28232), (40, 28220), (41, 28148), (46, 28052), (50, 28010), (52, 27995), (57, 27917),

Gene: Min1_01 Start: 771, Stop: 1, Start Num: 17

Candidate Starts for Min1_01:

(17, 771), (18, 750), (23, 669), (26, 612), (28, 606), (29, 582), (44, 318), (46, 294), (50, 252), (53, 210), (54, 183), (60, 129),

Gene: MoRicky_20 Start: 13746, Stop: 12850, Start Num: 2

Candidate Starts for MoRicky_20:

(2, 13746), (11, 13587), (15, 13548), (21, 13440), (22, 13434), (25, 13386), (27, 13350), (30, 13317), (35, 13251), (36, 13236), (38, 13212), (39, 13200), (40, 13188), (41, 13122), (47, 13026), (49, 12999), (51, 12984), (53, 12945),

Gene: Nandita_39 Start: 28503, Stop: 27628, Start Num: 5

Candidate Starts for Nandita_39:

(Start: 5 @28503 has 17 MA's), (7, 28464), (16, 28317), (18, 28278), (21, 28227), (24, 28191), (27, 28137), (29, 28110), (30, 28104), (31, 28086), (32, 28071), (34, 28041), (37, 28008), (39, 27987), (40, 27975), (41, 27903), (46, 27807), (50, 27765), (52, 27750),

Gene: Popper_37 Start: 28406, Stop: 27531, Start Num: 5

Candidate Starts for Popper_37:

(Start: 5 @28406 has 17 MA's), (7, 28367), (10, 28280), (18, 28181), (21, 28130), (24, 28094), (27, 28040), (29, 28013), (30, 28007), (31, 27989), (32, 27974), (34, 27944), (39, 27890), (40, 27878), (41, 27806), (46, 27710), (50, 27668), (52, 27653),

Gene: QuinnAvery_40 Start: 29406, Stop: 28531, Start Num: 5

Candidate Starts for QuinnAvery_40:

(Start: 5 @29406 has 17 MA's), (7, 29367), (10, 29280), (18, 29181), (21, 29130), (24, 29094), (27, 29040), (29, 29013), (30, 29007), (31, 28989), (32, 28974), (34, 28944), (39, 28890), (40, 28878), (41, 28806), (45, 28722), (46, 28710), (50, 28668), (52, 28653), (55, 28590),

Gene: Ryan_39 Start: 29105, Stop: 28230, Start Num: 5

Candidate Starts for Ryan_39:

(Start: 5 @29105 has 17 MA's), (7, 29066), (16, 28919), (18, 28880), (21, 28829), (24, 28793), (27, 28739), (29, 28712), (31, 28688), (32, 28673), (34, 28643), (37, 28610), (39, 28589), (40, 28577), (41, 28505), (42, 28493), (46, 28409), (50, 28367), (52, 28352),

Gene: Schism_41 Start: 29284, Stop: 28409, Start Num: 5

Candidate Starts for Schism_41:

(Start: 5 @29284 has 17 MA's), (7, 29245), (10, 29158), (18, 29059), (21, 29008), (24, 28972), (27, 28918), (29, 28891), (30, 28885), (31, 28867), (32, 28852), (34, 28822), (39, 28768), (40, 28756), (41, 28684), (46, 28588), (50, 28546), (52, 28531),

Gene: Smilerella_19 Start: 13836, Stop: 12850, Start Num: 1

Candidate Starts for Smilerella_19:

(1, 13836), (3, 13734), (Start: 5 @13728 has 17 MA's), (11, 13587), (15, 13548), (21, 13440), (22, 13434), (25, 13386), (27, 13350), (30, 13317), (35, 13251), (36, 13236), (38, 13212), (39, 13200), (40, 13188), (41, 13122), (47, 13026), (49, 12999), (51, 12984), (53, 12945),

Gene: ToastyOats_41 Start: 28880, Stop: 28005, Start Num: 5

Candidate Starts for ToastyOats_41:

(Start: 5 @28880 has 17 MA's), (7, 28841), (10, 28754), (18, 28655), (21, 28604), (24, 28568), (27, 28514), (29, 28487), (30, 28481), (31, 28463), (32, 28448), (34, 28418), (39, 28364), (40, 28352), (41, 28280), (46, 28184), (50, 28142), (52, 28127),

Gene: Toodles_40 Start: 29446, Stop: 28571, Start Num: 5

Candidate Starts for Toodles_40:

(4, 29449), (Start: 5 @29446 has 17 MA's), (7, 29407), (8, 29335), (16, 29260), (18, 29221), (19, 29200), (27, 29080), (32, 29014), (37, 28951), (39, 28930), (40, 28918), (41, 28846), (42, 28834), (46, 28750), (50, 28708), (52, 28693), (57, 28615),

Gene: Yonex_39 Start: 29105, Stop: 28230, Start Num: 5

Candidate Starts for Yonex_39:

(Start: 5 @29105 has 17 MA's), (7, 29066), (16, 28919), (18, 28880), (21, 28829), (24, 28793), (27, 28739), (29, 28712), (31, 28688), (32, 28673), (34, 28643), (37, 28610), (39, 28589), (40, 28577), (41, 28505), (42, 28493), (46, 28409), (50, 28367), (52, 28352),

Gene: Zaheer_39 Start: 29719, Stop: 28844, Start Num: 5

Candidate Starts for Zaheer_39:

(Start: 5 @29719 has 17 MA's), (7, 29680), (10, 29593), (18, 29494), (21, 29443), (24, 29407), (27, 29353), (29, 29326), (30, 29320), (31, 29302), (32, 29287), (34, 29257), (39, 29203), (40, 29191), (41, 29119), (46, 29023), (50, 28981), (52, 28966), (59, 28861),