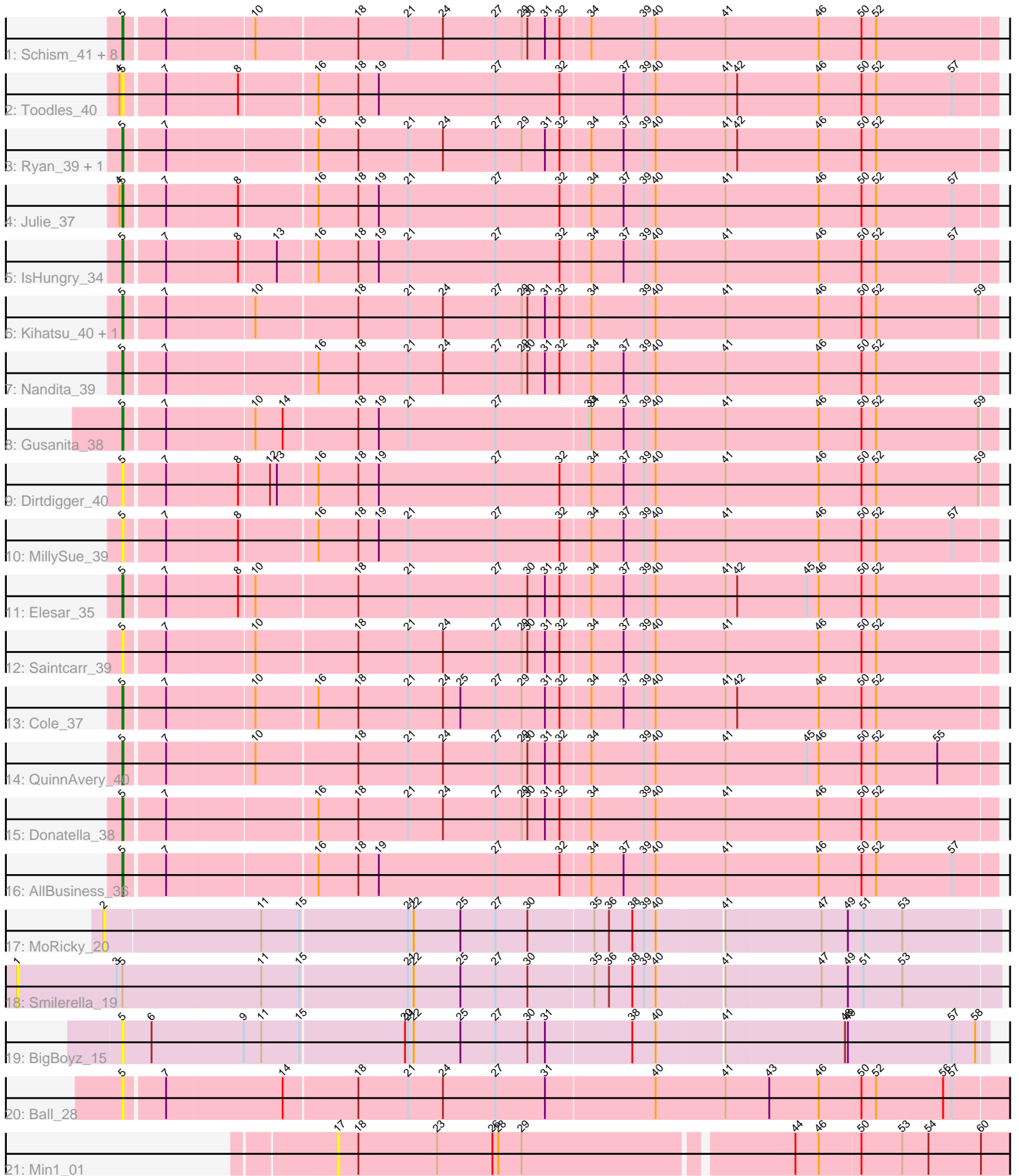


# Pham 294954



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 294954 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294954 has 31 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Schism\_41, Ichiang\_36, Halloweekend\_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 : Saintcarr\_39
- Track 13 : Cole\_37
- Track 14 : QuinnAvery\_40
- Track 15 : Donatella\_38
- Track 16 : AllBusiness\_36
- Track 17 : MoRicky\_20
- Track 18 : Smilerella\_19
- Track 19 : BigBoyz\_15
- Track 20 : Ball\_28
- Track 21 : 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, Halloweekend\_36, Ichiang\_36, IsHungry\_34, Julie\_37, Kihatsu\_40, Lenoxika\_39, MillySue\_39, Nandita\_39, Popper\_37, QuinnAvery\_40, Ryan\_39, Saintcarr\_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 31 ( 3.2% ) 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 31 ( 3.2% ) 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 29 of 31 ( 93.5% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 96.6% 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), Saintcarr\_39 (FF), Schism\_41 (FF), ToastyOats\_41 (FF), Toodles\_40 (FF), Yonex\_39 (FF), Zaheer\_39 (FF),

Start 17:

- Found in 1 of 31 ( 3.2% ) 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: Dirdigger\_40 Start: 29049, Stop: 28174, Start Num: 5

Candidate Starts for Dirdigger\_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: Saintcarr\_39 Start: 28819, Stop: 27944, Start Num: 5

Candidate Starts for Saintcarr\_39:

(Start: 5 @28819 has 17 MA's), (7, 28780), (10, 28693), (18, 28594), (21, 28543), (24, 28507), (27, 28453), (29, 28426), (30, 28420), (31, 28402), (32, 28387), (34, 28357), (37, 28324), (39, 28303), (40, 28291), (41, 28219), (46, 28123), (50, 28081), (52, 28066),

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),