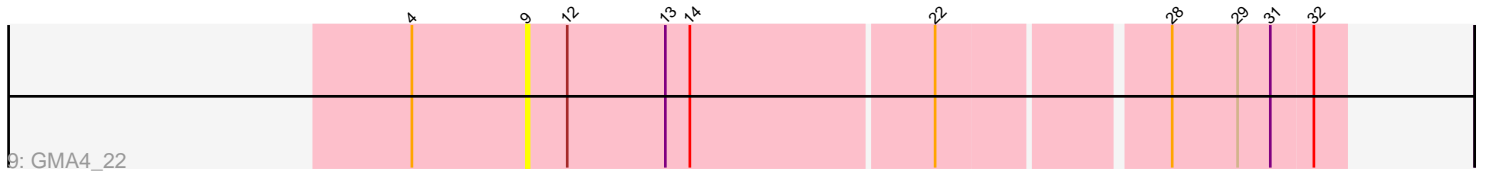
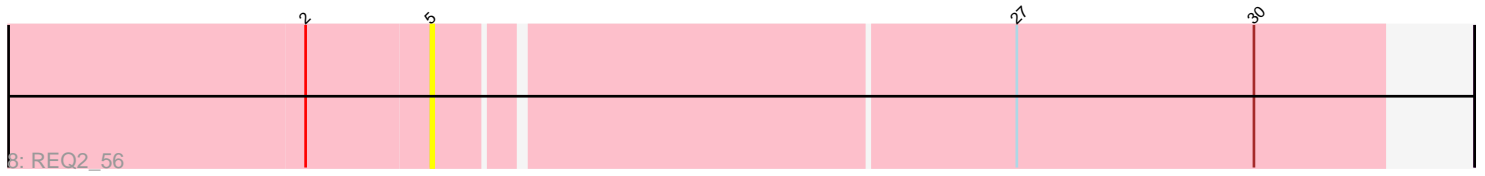
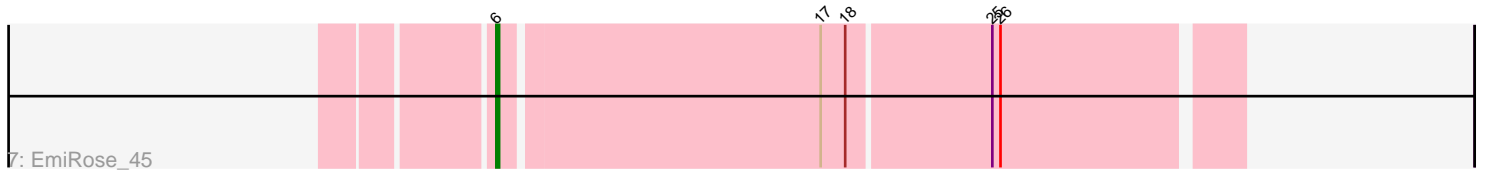
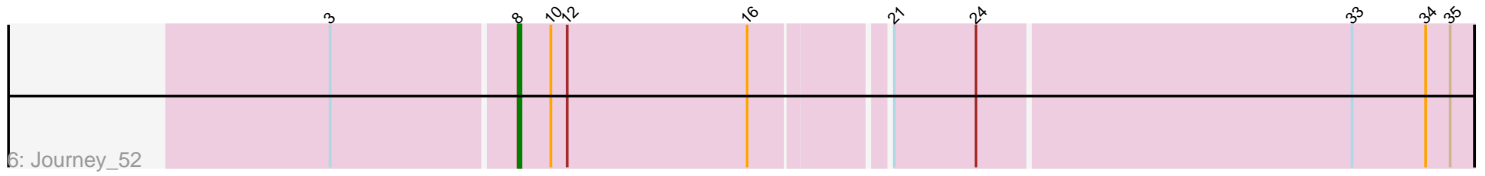
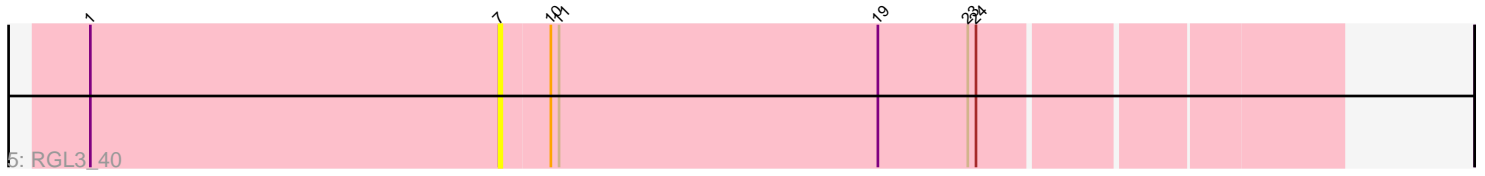
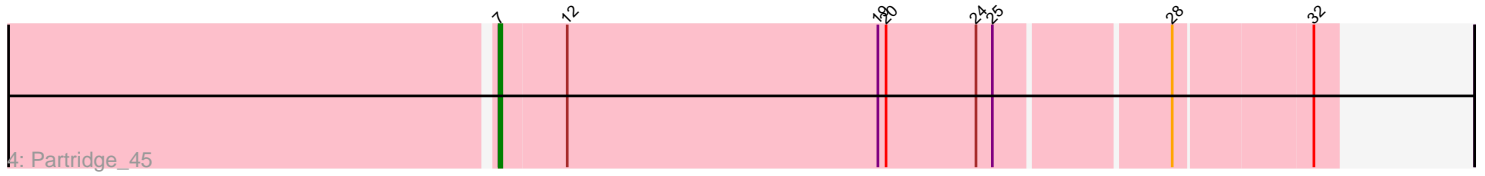
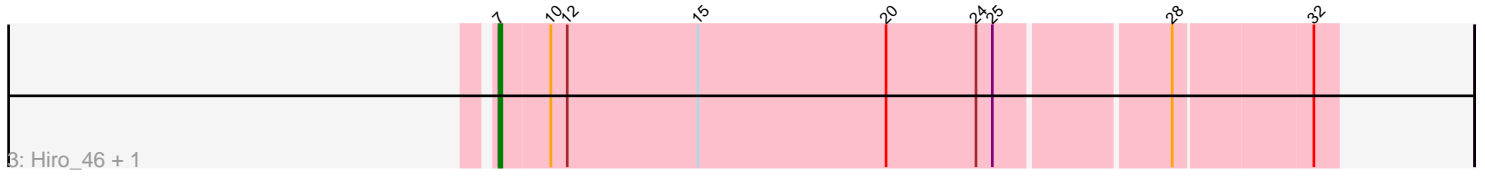
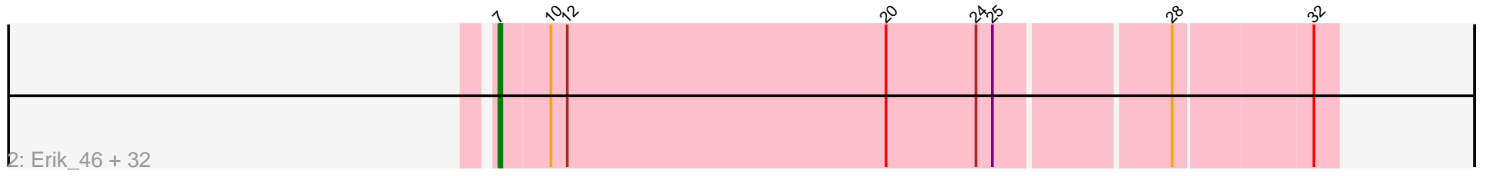
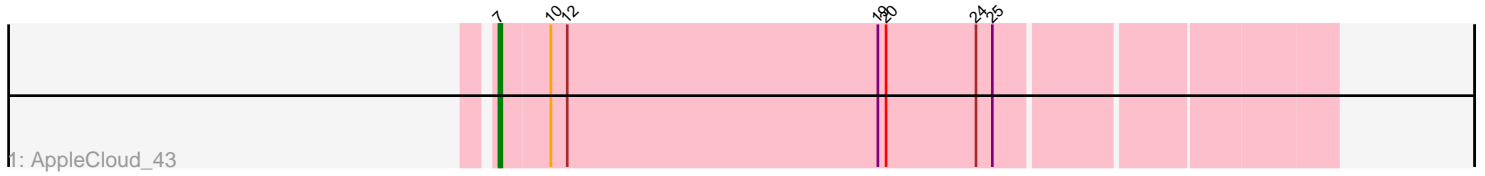


Pham 311768



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 311768 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311768 has 42 members, 4 are drafts.

Phages represented in each track:

- Track 1 : AppleCloud_43
- Track 2 : Erik_46, Yogi_45, Lillie_46, Shuman_46, Gollum_46, Jester_45, Nancinator_46, Alatin_45, Espica_46, Dinger_45, AngryOrchard_44, Alpacados_45, Krishelle_46, CosmicSans_46, TWAMP_46, Takoda_46, Bradshaw_46, Yoncess_45, StCroix_45, Harlequin_45, Rasputin_46, Naiad_45, Bonanza_46, Bryce_45, Swann_46, RER2_39, BobbyDazzler_46, RexFury_45, Phrankenstein_46, Rhodalysa_46, Belenaria_46, Natosaleda_45, UhSalsa_46
- Track 3 : Hiro_46, PhailMary_45
- Track 4 : Partridge_45
- Track 5 : RGL3_40
- Track 6 : Journey_52
- Track 7 : EmiRose_45
- Track 8 : REQ2_56
- Track 9 : GMA4_22

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

The start number called the most often in the published annotations is 7, it was called in 36 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatin_45, Alpacados_45, AngryOrchard_44, AppleCloud_43, Belenaria_46, BobbyDazzler_46, Bonanza_46, Bradshaw_46, Bryce_45, CosmicSans_46, Dinger_45, Erik_46, Espica_46, Gollum_46, Harlequin_45, Hiro_46, Jester_45, Krishelle_46, Lillie_46, Naiad_45, Nancinator_46, Natosaleda_45, Partridge_45, PhailMary_45, Phrankenstein_46, RER2_39, RGL3_40, Rasputin_46, RexFury_45, Rhodalysa_46, Shuman_46, StCroix_45, Swann_46, TWAMP_46, Takoda_46, UhSalsa_46, Yogi_45, Yoncess_45,

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

-

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

- EmiRose_45, GMA4_22, Journey_52, REQ2_56,

Summary by start number:

Start 5:

- Found in 1 of 42 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ2_56 (singleton),

Start 6:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EmiRose_45 (singleton),

Start 7:

- Found in 38 of 42 (90.5%) of genes in pham
- Manual Annotations of this start: 36 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_45 (CA), Alpacados_45 (CA), AngryOrchard_44 (CA), AppleCloud_43 (CA), Belenaria_46 (CA), BobbyDazzler_46 (CA), Bonanza_46 (CA), Bradshaw_46 (CA), Bryce_45 (CA), CosmicSans_46 (CA), Dinger_45 (CA), Erik_46 (CA), Espica_46 (CA), Gollum_46 (CA), Harlequin_45 (CA), Hiro_46 (CA), Jester_45 (CA), Krishelle_46 (CA), Lillie_46 (CA), Naiad_45 (CA), Nancinator_46 (CA), Natosaleda_45 (CA), Partridge_45 (CA), PhailMary_45 (CA), Phrankenstien_46 (CA), RER2_39 (CA), RGL3_40 (CA), Rasputin_46 (CA), RexFury_45 (CA), Rhodalysa_46 (CA), Shuman_46 (CA), StCroix_45 (CA), Swann_46 (CA), TWAMP_46 (CA), Takoda_46 (CA), UhSalsa_46 (CA), Yogi_45 (CA), Yoncess_45 (CA),

Start 8:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Journey_52 (N),

Start 9:

- Found in 1 of 42 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_22 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: CA, singleton, N,

Info for manual annotations of cluster CA:

- Start number 7 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster N:

- Start number 8 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Alatin_45 Start: 34365, Stop: 34069, Start Num: 7

Candidate Starts for Alatin_45:

(Start: 7 @34365 has 36 MA's), (10, 34347), (12, 34341), (20, 34224), (24, 34191), (25, 34185), (28, 34125), (32, 34077),

Gene: Alpacados_45 Start: 34270, Stop: 33974, Start Num: 7

Candidate Starts for Alpacados_45:

(Start: 7 @34270 has 36 MA's), (10, 34252), (12, 34246), (20, 34129), (24, 34096), (25, 34090), (28, 34030), (32, 33982),

Gene: AngryOrchard_44 Start: 34430, Stop: 34134, Start Num: 7

Candidate Starts for AngryOrchard_44:

(Start: 7 @34430 has 36 MA's), (10, 34412), (12, 34406), (20, 34289), (24, 34256), (25, 34250), (28, 34190), (32, 34142),

Gene: AppleCloud_43 Start: 34089, Stop: 33793, Start Num: 7

Candidate Starts for AppleCloud_43:

(Start: 7 @34089 has 36 MA's), (10, 34071), (12, 34065), (19, 33951), (20, 33948), (24, 33915), (25, 33909),

Gene: Belenaria_46 Start: 34231, Stop: 33935, Start Num: 7

Candidate Starts for Belenaria_46:

(Start: 7 @34231 has 36 MA's), (10, 34213), (12, 34207), (20, 34090), (24, 34057), (25, 34051), (28, 33991), (32, 33943),

Gene: BobbyDazzler_46 Start: 34344, Stop: 34048, Start Num: 7

Candidate Starts for BobbyDazzler_46:

(Start: 7 @34344 has 36 MA's), (10, 34326), (12, 34320), (20, 34203), (24, 34170), (25, 34164), (28, 34104), (32, 34056),

Gene: Bonanza_46 Start: 34272, Stop: 33976, Start Num: 7

Candidate Starts for Bonanza_46:

(Start: 7 @34272 has 36 MA's), (10, 34254), (12, 34248), (20, 34131), (24, 34098), (25, 34092), (28, 34032), (32, 33984),

Gene: Bradshaw_46 Start: 34298, Stop: 34002, Start Num: 7

Candidate Starts for Bradshaw_46:

(Start: 7 @34298 has 36 MA's), (10, 34280), (12, 34274), (20, 34157), (24, 34124), (25, 34118), (28, 34058), (32, 34010),

Gene: Bryce_45 Start: 34052, Stop: 33756, Start Num: 7

Candidate Starts for Bryce_45:

(Start: 7 @34052 has 36 MA's), (10, 34034), (12, 34028), (20, 33911), (24, 33878), (25, 33872), (28, 33812), (32, 33764),

Gene: CosmicSans_46 Start: 34298, Stop: 34002, Start Num: 7

Candidate Starts for CosmicSans_46:

(Start: 7 @34298 has 36 MA's), (10, 34280), (12, 34274), (20, 34157), (24, 34124), (25, 34118), (28, 34058), (32, 34010),

Gene: Dinger_45 Start: 34431, Stop: 34135, Start Num: 7

Candidate Starts for Dinger_45:

(Start: 7 @34431 has 36 MA's), (10, 34413), (12, 34407), (20, 34290), (24, 34257), (25, 34251), (28, 34191), (32, 34143),

Gene: EmiRose_45 Start: 36642, Stop: 36902, Start Num: 6

Candidate Starts for EmiRose_45:

(Start: 6 @36642 has 1 MA's), (17, 36756), (18, 36765), (25, 36816), (26, 36819),

Gene: Erik_46 Start: 34230, Stop: 33934, Start Num: 7

Candidate Starts for Erik_46:

(Start: 7 @34230 has 36 MA's), (10, 34212), (12, 34206), (20, 34089), (24, 34056), (25, 34050), (28, 33990), (32, 33942),

Gene: Espica_46 Start: 34231, Stop: 33935, Start Num: 7

Candidate Starts for Espica_46:

(Start: 7 @34231 has 36 MA's), (10, 34213), (12, 34207), (20, 34090), (24, 34057), (25, 34051), (28, 33991), (32, 33943),

Gene: GMA4_22 Start: 21398, Stop: 21685, Start Num: 9

Candidate Starts for GMA4_22:

(4, 21356), (9, 21398), (12, 21413), (13, 21449), (14, 21458), (22, 21545), (28, 21623), (29, 21647), (31, 21659), (32, 21674),

Gene: Gollum_46 Start: 34296, Stop: 34000, Start Num: 7

Candidate Starts for Gollum_46:

(Start: 7 @34296 has 36 MA's), (10, 34278), (12, 34272), (20, 34155), (24, 34122), (25, 34116), (28, 34056), (32, 34008),

Gene: Harlequin_45 Start: 34082, Stop: 33786, Start Num: 7

Candidate Starts for Harlequin_45:

(Start: 7 @34082 has 36 MA's), (10, 34064), (12, 34058), (20, 33941), (24, 33908), (25, 33902), (28, 33842), (32, 33794),

Gene: Hiro_46 Start: 34558, Stop: 34262, Start Num: 7

Candidate Starts for Hiro_46:

(Start: 7 @34558 has 36 MA's), (10, 34540), (12, 34534), (15, 34486), (20, 34417), (24, 34384), (25, 34378), (28, 34318), (32, 34270),

Gene: Jester_45 Start: 34013, Stop: 33717, Start Num: 7

Candidate Starts for Jester_45:

(Start: 7 @34013 has 36 MA's), (10, 33995), (12, 33989), (20, 33872), (24, 33839), (25, 33833), (28, 33773), (32, 33725),

Gene: Journey_52 Start: 34954, Stop: 35292, Start Num: 8

Candidate Starts for Journey_52:

(3, 34888), (Start: 8 @34954 has 1 MA's), (10, 34966), (12, 34972), (16, 35038), (21, 35083), (24, 35113), (33, 35248), (34, 35275), (35, 35284),

Gene: Krishelle_46 Start: 34658, Stop: 34362, Start Num: 7

Candidate Starts for Krishelle_46:

(Start: 7 @34658 has 36 MA's), (10, 34640), (12, 34634), (20, 34517), (24, 34484), (25, 34478), (28, 34418), (32, 34370),

Gene: Lillie_46 Start: 34298, Stop: 34002, Start Num: 7
Candidate Starts for Lillie_46:
(Start: 7 @34298 has 36 MA's), (10, 34280), (12, 34274), (20, 34157), (24, 34124), (25, 34118), (28, 34058), (32, 34010),

Gene: Naiad_45 Start: 34311, Stop: 34015, Start Num: 7
Candidate Starts for Naiad_45:
(Start: 7 @34311 has 36 MA's), (10, 34293), (12, 34287), (20, 34170), (24, 34137), (25, 34131), (28, 34071), (32, 34023),

Gene: Nancinator_46 Start: 34231, Stop: 33935, Start Num: 7
Candidate Starts for Nancinator_46:
(Start: 7 @34231 has 36 MA's), (10, 34213), (12, 34207), (20, 34090), (24, 34057), (25, 34051), (28, 33991), (32, 33943),

Gene: Natosaleda_45 Start: 34230, Stop: 33934, Start Num: 7
Candidate Starts for Natosaleda_45:
(Start: 7 @34230 has 36 MA's), (10, 34212), (12, 34206), (20, 34089), (24, 34056), (25, 34050), (28, 33990), (32, 33942),

Gene: Partridge_45 Start: 34587, Stop: 34291, Start Num: 7
Candidate Starts for Partridge_45:
(Start: 7 @34587 has 36 MA's), (12, 34563), (19, 34449), (20, 34446), (24, 34413), (25, 34407), (28, 34347), (32, 34299),

Gene: PhailMary_45 Start: 34620, Stop: 34324, Start Num: 7
Candidate Starts for PhailMary_45:
(Start: 7 @34620 has 36 MA's), (10, 34602), (12, 34596), (15, 34548), (20, 34479), (24, 34446), (25, 34440), (28, 34380), (32, 34332),

Gene: Phrankenstein_46 Start: 34244, Stop: 33948, Start Num: 7
Candidate Starts for Phrankenstein_46:
(Start: 7 @34244 has 36 MA's), (10, 34226), (12, 34220), (20, 34103), (24, 34070), (25, 34064), (28, 34004), (32, 33956),

Gene: REQ2_56 Start: 38041, Stop: 38379, Start Num: 5
Candidate Starts for REQ2_56:
(2, 37996), (5, 38041), (27, 38245), (30, 38332),

Gene: RER2_39 Start: 31170, Stop: 30874, Start Num: 7
Candidate Starts for RER2_39:
(Start: 7 @31170 has 36 MA's), (10, 31152), (12, 31146), (20, 31029), (24, 30996), (25, 30990), (28, 30930), (32, 30882),

Gene: RGL3_40 Start: 32103, Stop: 31804, Start Num: 7
Candidate Starts for RGL3_40:
(1, 32253), (Start: 7 @32103 has 36 MA's), (10, 32085), (11, 32082), (19, 31965), (23, 31932), (24, 31929),

Gene: Rasputin_46 Start: 34268, Stop: 33972, Start Num: 7
Candidate Starts for Rasputin_46:
(Start: 7 @34268 has 36 MA's), (10, 34250), (12, 34244), (20, 34127), (24, 34094), (25, 34088), (28, 34028), (32, 33980),

Gene: RexFury_45 Start: 34329, Stop: 34033, Start Num: 7

Candidate Starts for RexFury_45:

(Start: 7 @34329 has 36 MA's), (10, 34311), (12, 34305), (20, 34188), (24, 34155), (25, 34149), (28, 34089), (32, 34041),

Gene: Rhodalysa_46 Start: 34298, Stop: 34002, Start Num: 7

Candidate Starts for Rhodalysa_46:

(Start: 7 @34298 has 36 MA's), (10, 34280), (12, 34274), (20, 34157), (24, 34124), (25, 34118), (28, 34058), (32, 34010),

Gene: Shuman_46 Start: 34243, Stop: 33947, Start Num: 7

Candidate Starts for Shuman_46:

(Start: 7 @34243 has 36 MA's), (10, 34225), (12, 34219), (20, 34102), (24, 34069), (25, 34063), (28, 34003), (32, 33955),

Gene: StCroix_45 Start: 34311, Stop: 34015, Start Num: 7

Candidate Starts for StCroix_45:

(Start: 7 @34311 has 36 MA's), (10, 34293), (12, 34287), (20, 34170), (24, 34137), (25, 34131), (28, 34071), (32, 34023),

Gene: Swann_46 Start: 34296, Stop: 34000, Start Num: 7

Candidate Starts for Swann_46:

(Start: 7 @34296 has 36 MA's), (10, 34278), (12, 34272), (20, 34155), (24, 34122), (25, 34116), (28, 34056), (32, 34008),

Gene: TWAMP_46 Start: 34298, Stop: 34002, Start Num: 7

Candidate Starts for TWAMP_46:

(Start: 7 @34298 has 36 MA's), (10, 34280), (12, 34274), (20, 34157), (24, 34124), (25, 34118), (28, 34058), (32, 34010),

Gene: Takoda_46 Start: 34472, Stop: 34176, Start Num: 7

Candidate Starts for Takoda_46:

(Start: 7 @34472 has 36 MA's), (10, 34454), (12, 34448), (20, 34331), (24, 34298), (25, 34292), (28, 34232), (32, 34184),

Gene: UhSalsa_46 Start: 34231, Stop: 33935, Start Num: 7

Candidate Starts for UhSalsa_46:

(Start: 7 @34231 has 36 MA's), (10, 34213), (12, 34207), (20, 34090), (24, 34057), (25, 34051), (28, 33991), (32, 33943),

Gene: Yogi_45 Start: 34272, Stop: 33976, Start Num: 7

Candidate Starts for Yogi_45:

(Start: 7 @34272 has 36 MA's), (10, 34254), (12, 34248), (20, 34131), (24, 34098), (25, 34092), (28, 34032), (32, 33984),

Gene: Yoncess_45 Start: 34052, Stop: 33756, Start Num: 7

Candidate Starts for Yoncess_45:

(Start: 7 @34052 has 36 MA's), (10, 34034), (12, 34028), (20, 33911), (24, 33878), (25, 33872), (28, 33812), (32, 33764),