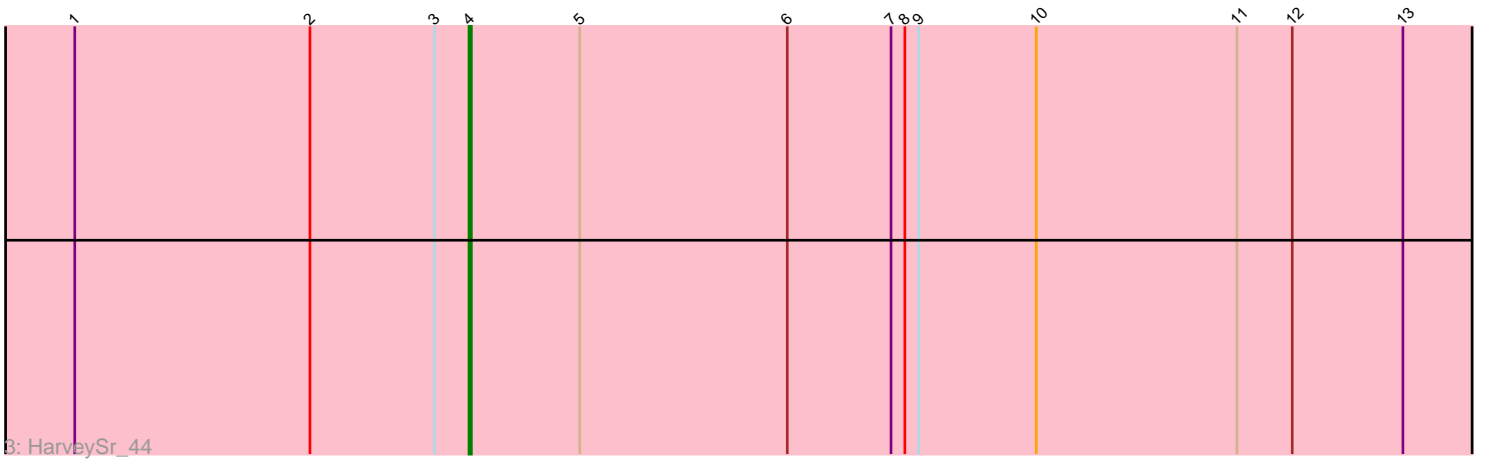
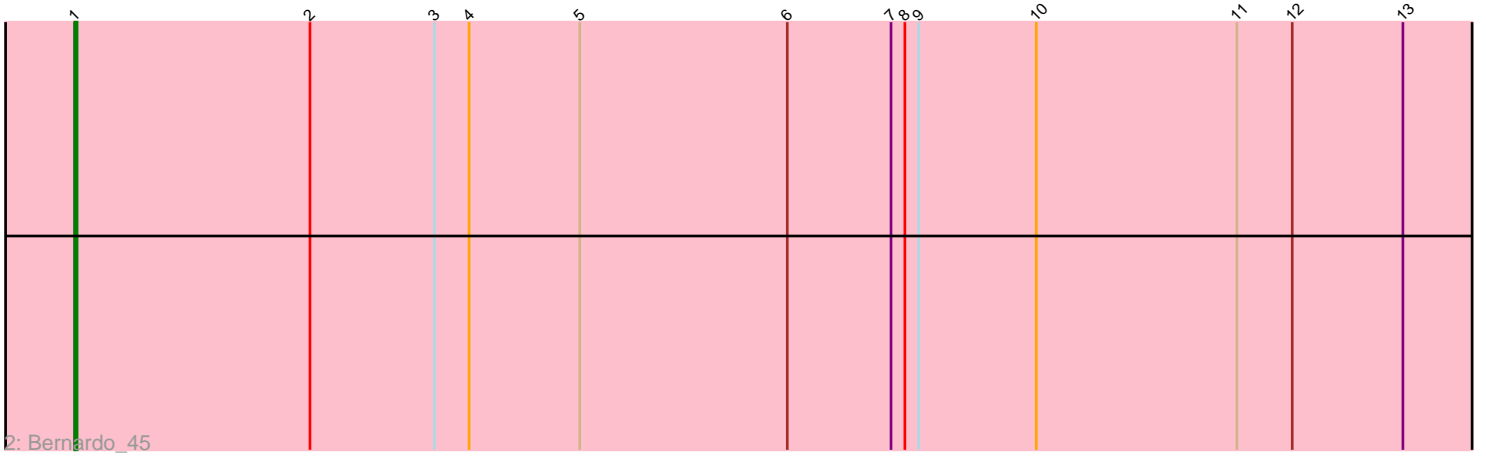
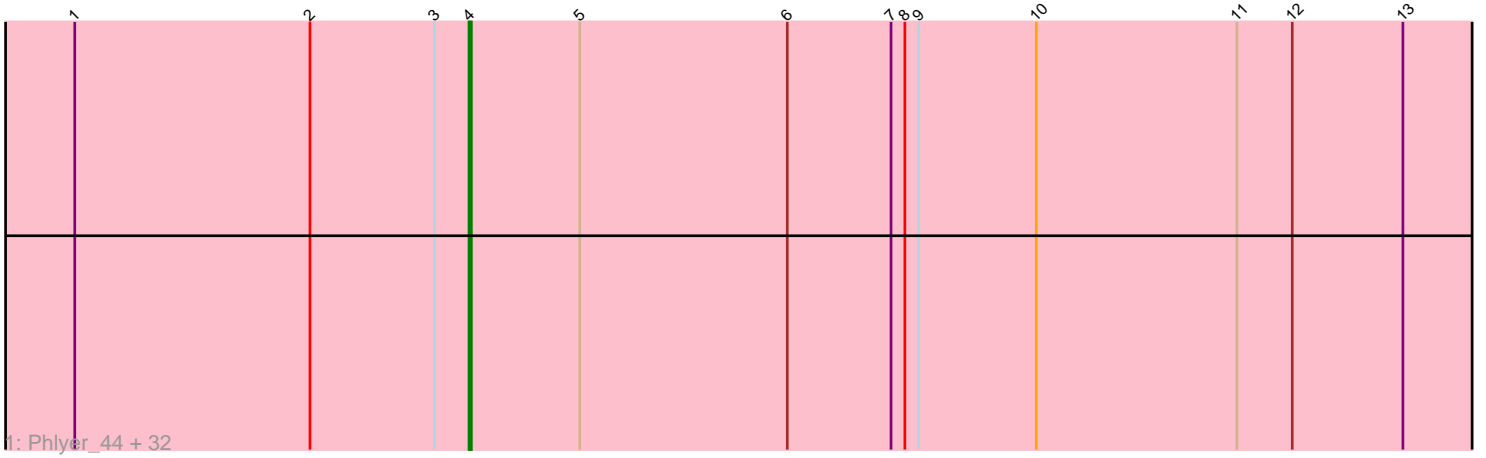


Pham 196689



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 196689 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196689 has 35 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Phlyer_44, Nozo_44, Heathcliff_44, MmasiCarm_44, Neos5_44, Obutu_44, GlenHope_45, Pipefish_46, Yinz_44, Mortcellus_43, ChaChing_44, SynergyX_44, RagingRooster_44, Compostia_45, Briakila_45, Corofin_44, Baloo_44, Kronus_43, OrangeOswald_44, LestyG_44, Athena_45, Gervas_44, Abinghost_44, Daisy_44, Gadget_45, Philly_43, Yahalom_44, Devonte_44, Deenasa_44, RomaT_44, Kamiyu_44, Rita1961_44, Marley1013_44
- Track 2 : Bernardo_45
- Track 3 : HarveySr_44

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

The start number called the most often in the published annotations is 4, it was called in 34 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_44, Athena_45, Baloo_44, Briakila_45, ChaChing_44, Compostia_45, Corofin_44, Daisy_44, Deenasa_44, Devonte_44, Gadget_45, Gervas_44, GlenHope_45, HarveySr_44, Heathcliff_44, Kamiyu_44, Kronus_43, LestyG_44, Marley1013_44, MmasiCarm_44, Mortcellus_43, Neos5_44, Nozo_44, Obutu_44, OrangeOswald_44, Philly_43, Phlyer_44, Pipefish_46, RagingRooster_44, Rita1961_44, RomaT_44, SynergyX_44, Yahalom_44, Yinz_44,

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

- Bernardo_45,

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

-

Summary by start number:

Start 1:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 2.9% of time when present

- Phage (with cluster) where this start called: Bernardo_45 (B3),

Start 4:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 34 of 35
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Abinghost_44 (B3), Athena_45 (B3), Baloo_44 (B3), Briakila_45 (B3), ChaChing_44 (B3), Compostia_45 (B3), Corofin_44 (B3), Daisy_44 (B3), Deenasa_44 (B3), Devonte_44 (B3), Gadget_45 (B3), Gervas_44 (B3), GlenHope_45 (B3), HarveySr_44 (B3), Heathcliff_44 (B3), Kamiyu_44 (B3), Kronus_43 (B3), LestyG_44 (B3), Marley1013_44 (B3), MmasiCarm_44 (B3), Mortcellus_43 (B3), Neos5_44 (B3), Nozo_44 (B3), Obutu_44 (B3), OrangeOswald_44 (B3), Philly_43 (B3), Phlyer_44 (B3), Pipefish_46 (B3), RagingRooster_44 (B3), Rita1961_44 (B3), RomaT_44 (B3), SynergyX_44 (B3), Yahalom_44 (B3), Yinz_44 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 1 was manually annotated 1 time for cluster B3.
- Start number 4 was manually annotated 34 times for cluster B3.

Gene Information:

Gene: Abinghost_44 Start: 39509, Stop: 39024, Start Num: 4

Candidate Starts for Abinghost_44:

(Start: 1 @39680 has 1 MA's), (2, 39578), (3, 39524), (Start: 4 @39509 has 34 MA's), (5, 39461), (6, 39371), (7, 39326), (8, 39320), (9, 39314), (10, 39263), (11, 39176), (12, 39152), (13, 39104),

Gene: Athena_45 Start: 40260, Stop: 39775, Start Num: 4

Candidate Starts for Athena_45:

(Start: 1 @40431 has 1 MA's), (2, 40329), (3, 40275), (Start: 4 @40260 has 34 MA's), (5, 40212), (6, 40122), (7, 40077), (8, 40071), (9, 40065), (10, 40014), (11, 39927), (12, 39903), (13, 39855),

Gene: Baloo_44 Start: 39512, Stop: 39027, Start Num: 4

Candidate Starts for Baloo_44:

(Start: 1 @39683 has 1 MA's), (2, 39581), (3, 39527), (Start: 4 @39512 has 34 MA's), (5, 39464), (6, 39374), (7, 39329), (8, 39323), (9, 39317), (10, 39266), (11, 39179), (12, 39155), (13, 39107),

Gene: Bernardo_45 Start: 40228, Stop: 39572, Start Num: 1

Candidate Starts for Bernardo_45:

(Start: 1 @40228 has 1 MA's), (2, 40126), (3, 40072), (Start: 4 @40057 has 34 MA's), (5, 40009), (6, 39919), (7, 39874), (8, 39868), (9, 39862), (10, 39811), (11, 39724), (12, 39700), (13, 39652),

Gene: Briakila_45 Start: 40279, Stop: 39794, Start Num: 4

Candidate Starts for Briakila_45:

(Start: 1 @40450 has 1 MA's), (2, 40348), (3, 40294), (Start: 4 @40279 has 34 MA's), (5, 40231), (6, 40141), (7, 40096), (8, 40090), (9, 40084), (10, 40033), (11, 39946), (12, 39922), (13, 39874),

Gene: ChaChing_44 Start: 39524, Stop: 39039, Start Num: 4

Candidate Starts for ChaChing_44:

(Start: 1 @39695 has 1 MA's), (2, 39593), (3, 39539), (Start: 4 @39524 has 34 MA's), (5, 39476), (6, 39386), (7, 39341), (8, 39335), (9, 39329), (10, 39278), (11, 39191), (12, 39167), (13, 39119),

Gene: Compostia_45 Start: 39940, Stop: 39455, Start Num: 4

Candidate Starts for Compostia_45:

(Start: 1 @40111 has 1 MA's), (2, 40009), (3, 39955), (Start: 4 @39940 has 34 MA's), (5, 39892), (6, 39802), (7, 39757), (8, 39751), (9, 39745), (10, 39694), (11, 39607), (12, 39583), (13, 39535),

Gene: Corofin_44 Start: 39535, Stop: 39050, Start Num: 4

Candidate Starts for Corofin_44:

(Start: 1 @39706 has 1 MA's), (2, 39604), (3, 39550), (Start: 4 @39535 has 34 MA's), (5, 39487), (6, 39397), (7, 39352), (8, 39346), (9, 39340), (10, 39289), (11, 39202), (12, 39178), (13, 39130),

Gene: Daisy_44 Start: 39536, Stop: 39051, Start Num: 4

Candidate Starts for Daisy_44:

(Start: 1 @39707 has 1 MA's), (2, 39605), (3, 39551), (Start: 4 @39536 has 34 MA's), (5, 39488), (6, 39398), (7, 39353), (8, 39347), (9, 39341), (10, 39290), (11, 39203), (12, 39179), (13, 39131),

Gene: Deenasa_44 Start: 40271, Stop: 39786, Start Num: 4

Candidate Starts for Deenasa_44:

(Start: 1 @40442 has 1 MA's), (2, 40340), (3, 40286), (Start: 4 @40271 has 34 MA's), (5, 40223), (6, 40133), (7, 40088), (8, 40082), (9, 40076), (10, 40025), (11, 39938), (12, 39914), (13, 39866),

Gene: Devonte_44 Start: 39500, Stop: 39015, Start Num: 4

Candidate Starts for Devonte_44:

(Start: 1 @39671 has 1 MA's), (2, 39569), (3, 39515), (Start: 4 @39500 has 34 MA's), (5, 39452), (6, 39362), (7, 39317), (8, 39311), (9, 39305), (10, 39254), (11, 39167), (12, 39143), (13, 39095),

Gene: Gadget_45 Start: 39523, Stop: 39038, Start Num: 4

Candidate Starts for Gadget_45:

(Start: 1 @39694 has 1 MA's), (2, 39592), (3, 39538), (Start: 4 @39523 has 34 MA's), (5, 39475), (6, 39385), (7, 39340), (8, 39334), (9, 39328), (10, 39277), (11, 39190), (12, 39166), (13, 39118),

Gene: Gervas_44 Start: 39490, Stop: 39005, Start Num: 4

Candidate Starts for Gervas_44:

(Start: 1 @39661 has 1 MA's), (2, 39559), (3, 39505), (Start: 4 @39490 has 34 MA's), (5, 39442), (6, 39352), (7, 39307), (8, 39301), (9, 39295), (10, 39244), (11, 39157), (12, 39133), (13, 39085),

Gene: GlenHope_45 Start: 39503, Stop: 39018, Start Num: 4

Candidate Starts for GlenHope_45:

(Start: 1 @39674 has 1 MA's), (2, 39572), (3, 39518), (Start: 4 @39503 has 34 MA's), (5, 39455), (6, 39365), (7, 39320), (8, 39314), (9, 39308), (10, 39257), (11, 39170), (12, 39146), (13, 39098),

Gene: HarveySr_44 Start: 39496, Stop: 39011, Start Num: 4

Candidate Starts for HarveySr_44:

(Start: 1 @39667 has 1 MA's), (2, 39565), (3, 39511), (Start: 4 @39496 has 34 MA's), (5, 39448), (6, 39358), (7, 39313), (8, 39307), (9, 39301), (10, 39250), (11, 39163), (12, 39139), (13, 39091),

Gene: Heathcliff_44 Start: 39474, Stop: 38989, Start Num: 4

Candidate Starts for Heathcliff_44:

(Start: 1 @39645 has 1 MA's), (2, 39543), (3, 39489), (Start: 4 @39474 has 34 MA's), (5, 39426), (6, 39336), (7, 39291), (8, 39285), (9, 39279), (10, 39228), (11, 39141), (12, 39117), (13, 39069),

Gene: Kamiyu_44 Start: 39482, Stop: 38997, Start Num: 4

Candidate Starts for Kamiyu_44:

(Start: 1 @39653 has 1 MA's), (2, 39551), (3, 39497), (Start: 4 @39482 has 34 MA's), (5, 39434), (6, 39344), (7, 39299), (8, 39293), (9, 39287), (10, 39236), (11, 39149), (12, 39125), (13, 39077),

Gene: Kronus_43 Start: 40092, Stop: 39607, Start Num: 4

Candidate Starts for Kronus_43:

(Start: 1 @40263 has 1 MA's), (2, 40161), (3, 40107), (Start: 4 @40092 has 34 MA's), (5, 40044), (6, 39954), (7, 39909), (8, 39903), (9, 39897), (10, 39846), (11, 39759), (12, 39735), (13, 39687),

Gene: LestyG_44 Start: 39513, Stop: 39028, Start Num: 4

Candidate Starts for LestyG_44:

(Start: 1 @39684 has 1 MA's), (2, 39582), (3, 39528), (Start: 4 @39513 has 34 MA's), (5, 39465), (6, 39375), (7, 39330), (8, 39324), (9, 39318), (10, 39267), (11, 39180), (12, 39156), (13, 39108),

Gene: Marley1013_44 Start: 40291, Stop: 39806, Start Num: 4

Candidate Starts for Marley1013_44:

(Start: 1 @40462 has 1 MA's), (2, 40360), (3, 40306), (Start: 4 @40291 has 34 MA's), (5, 40243), (6, 40153), (7, 40108), (8, 40102), (9, 40096), (10, 40045), (11, 39958), (12, 39934), (13, 39886),

Gene: MmasiCarm_44 Start: 39495, Stop: 39010, Start Num: 4

Candidate Starts for MmasiCarm_44:

(Start: 1 @39666 has 1 MA's), (2, 39564), (3, 39510), (Start: 4 @39495 has 34 MA's), (5, 39447), (6, 39357), (7, 39312), (8, 39306), (9, 39300), (10, 39249), (11, 39162), (12, 39138), (13, 39090),

Gene: Mortcellus_43 Start: 40147, Stop: 39662, Start Num: 4

Candidate Starts for Mortcellus_43:

(Start: 1 @40318 has 1 MA's), (2, 40216), (3, 40162), (Start: 4 @40147 has 34 MA's), (5, 40099), (6, 40009), (7, 39964), (8, 39958), (9, 39952), (10, 39901), (11, 39814), (12, 39790), (13, 39742),

Gene: Neos5_44 Start: 40306, Stop: 39821, Start Num: 4

Candidate Starts for Neos5_44:

(Start: 1 @40477 has 1 MA's), (2, 40375), (3, 40321), (Start: 4 @40306 has 34 MA's), (5, 40258), (6, 40168), (7, 40123), (8, 40117), (9, 40111), (10, 40060), (11, 39973), (12, 39949), (13, 39901),

Gene: Nozo_44 Start: 40271, Stop: 39786, Start Num: 4

Candidate Starts for Nozo_44:

(Start: 1 @40442 has 1 MA's), (2, 40340), (3, 40286), (Start: 4 @40271 has 34 MA's), (5, 40223), (6, 40133), (7, 40088), (8, 40082), (9, 40076), (10, 40025), (11, 39938), (12, 39914), (13, 39866),

Gene: Obutu_44 Start: 39495, Stop: 39010, Start Num: 4

Candidate Starts for Obutu_44:

(Start: 1 @39666 has 1 MA's), (2, 39564), (3, 39510), (Start: 4 @39495 has 34 MA's), (5, 39447), (6, 39357), (7, 39312), (8, 39306), (9, 39300), (10, 39249), (11, 39162), (12, 39138), (13, 39090),

Gene: OrangeOswald_44 Start: 39512, Stop: 39027, Start Num: 4

Candidate Starts for OrangeOswald_44:

(Start: 1 @39683 has 1 MA's), (2, 39581), (3, 39527), (Start: 4 @39512 has 34 MA's), (5, 39464), (6, 39374), (7, 39329), (8, 39323), (9, 39317), (10, 39266), (11, 39179), (12, 39155), (13, 39107),

Gene: Philly_43 Start: 39363, Stop: 38878, Start Num: 4

Candidate Starts for Philly_43:

(Start: 1 @39534 has 1 MA's), (2, 39432), (3, 39378), (Start: 4 @39363 has 34 MA's), (5, 39315), (6, 39225), (7, 39180), (8, 39174), (9, 39168), (10, 39117), (11, 39030), (12, 39006), (13, 38958),

Gene: Phlyer_44 Start: 40251, Stop: 39766, Start Num: 4

Candidate Starts for Phlyer_44:

(Start: 1 @40422 has 1 MA's), (2, 40320), (3, 40266), (Start: 4 @40251 has 34 MA's), (5, 40203), (6, 40113), (7, 40068), (8, 40062), (9, 40056), (10, 40005), (11, 39918), (12, 39894), (13, 39846),

Gene: Pipefish_46 Start: 40904, Stop: 40419, Start Num: 4

Candidate Starts for Pipefish_46:

(Start: 1 @41075 has 1 MA's), (2, 40973), (3, 40919), (Start: 4 @40904 has 34 MA's), (5, 40856), (6, 40766), (7, 40721), (8, 40715), (9, 40709), (10, 40658), (11, 40571), (12, 40547), (13, 40499),

Gene: RagingRooster_44 Start: 39513, Stop: 39028, Start Num: 4

Candidate Starts for RagingRooster_44:

(Start: 1 @39684 has 1 MA's), (2, 39582), (3, 39528), (Start: 4 @39513 has 34 MA's), (5, 39465), (6, 39375), (7, 39330), (8, 39324), (9, 39318), (10, 39267), (11, 39180), (12, 39156), (13, 39108),

Gene: Rita1961_44 Start: 39496, Stop: 39011, Start Num: 4

Candidate Starts for Rita1961_44:

(Start: 1 @39667 has 1 MA's), (2, 39565), (3, 39511), (Start: 4 @39496 has 34 MA's), (5, 39448), (6, 39358), (7, 39313), (8, 39307), (9, 39301), (10, 39250), (11, 39163), (12, 39139), (13, 39091),

Gene: RomaT_44 Start: 40286, Stop: 39801, Start Num: 4

Candidate Starts for RomaT_44:

(Start: 1 @40457 has 1 MA's), (2, 40355), (3, 40301), (Start: 4 @40286 has 34 MA's), (5, 40238), (6, 40148), (7, 40103), (8, 40097), (9, 40091), (10, 40040), (11, 39953), (12, 39929), (13, 39881),

Gene: SynergyX_44 Start: 39513, Stop: 39028, Start Num: 4

Candidate Starts for SynergyX_44:

(Start: 1 @39684 has 1 MA's), (2, 39582), (3, 39528), (Start: 4 @39513 has 34 MA's), (5, 39465), (6, 39375), (7, 39330), (8, 39324), (9, 39318), (10, 39267), (11, 39180), (12, 39156), (13, 39108),

Gene: Yahalom_44 Start: 39523, Stop: 39038, Start Num: 4

Candidate Starts for Yahalom_44:

(Start: 1 @39694 has 1 MA's), (2, 39592), (3, 39538), (Start: 4 @39523 has 34 MA's), (5, 39475), (6, 39385), (7, 39340), (8, 39334), (9, 39328), (10, 39277), (11, 39190), (12, 39166), (13, 39118),

Gene: Yinz_44 Start: 39549, Stop: 39064, Start Num: 4

Candidate Starts for Yinz_44:

(Start: 1 @39720 has 1 MA's), (2, 39618), (3, 39564), (Start: 4 @39549 has 34 MA's), (5, 39501), (6, 39411), (7, 39366), (8, 39360), (9, 39354), (10, 39303), (11, 39216), (12, 39192), (13, 39144),