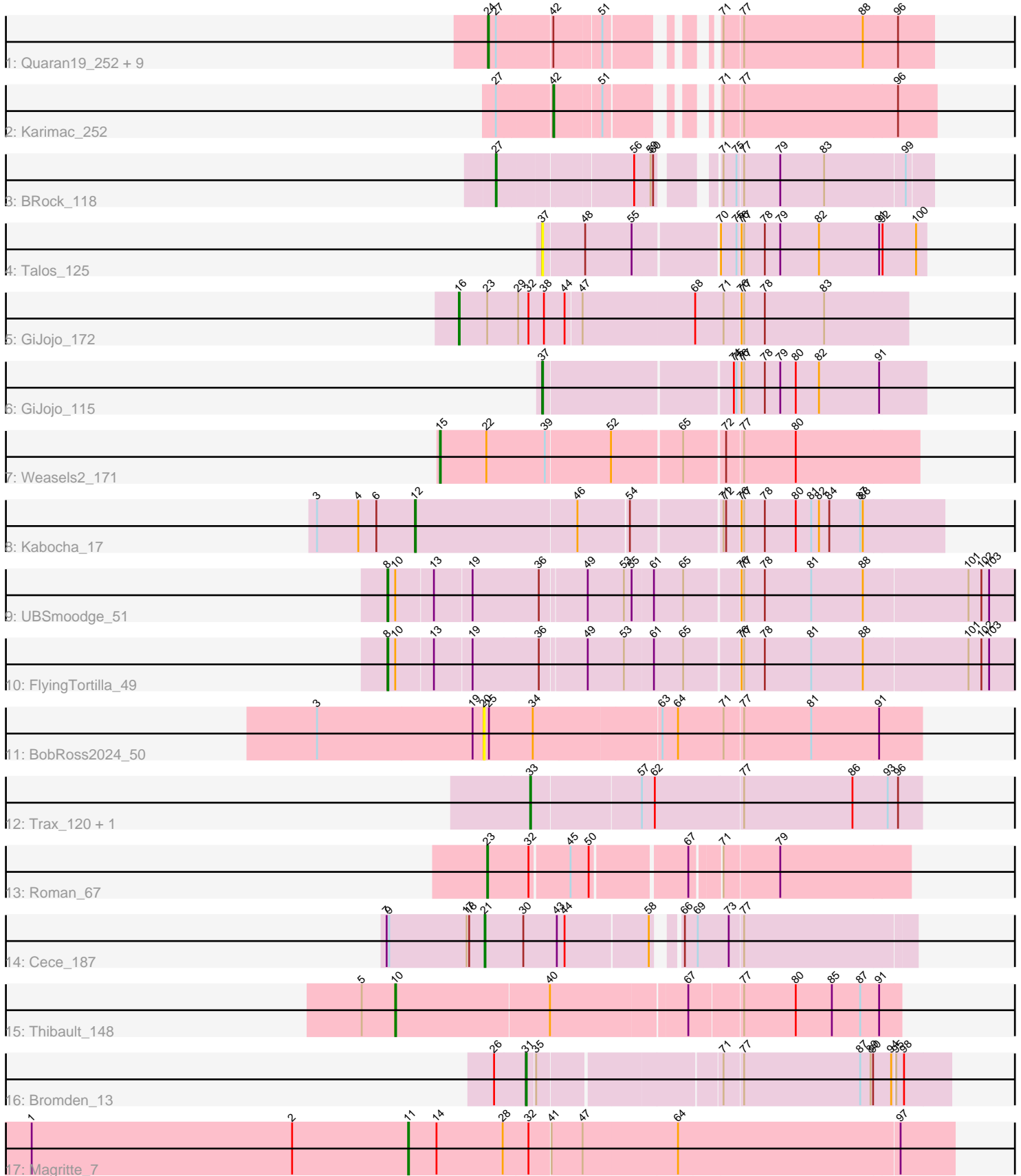# Pham 214560

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 214560 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214560 has 27 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Quaran19_252, JimJam_259, KentuckyRacer_258, Gibbi_260, Wipeout_242, CeilingFan_256, Spilled_259, Rikishi_260, TomSawyer_256, Enygma_258
• Track 2 : Karimac_252
• Track 3 : BRock_118
• Track 4 : Talos_125
• Track 5 : GiJojo_172
• Track 6 : GiJojo_115
• Track 7 : Weasels2_171
• Track 8 : Kabocha_17
• Track 9 : UBSmoodge_51
• Track 10 : FlyingTortilla_49
• Track 11 : BobRoss2024_50
• Track 12 : Trax_120, Neville_119
• Track 13 : Roman_67
• Track 14 : Cece_187
• Track 15 : Thibault_148
• Track 16 : Bromden_13
• Track 17 : Magritte_7

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

The start number called the most often in the published annotations is 24, it was called in 8 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CeilingFan_256, Enygma_258, Gibbi_260, JimJam_259, KentuckyRacer_258, Quaran19_252, Rikishi_260, Spilled_259, TomSawyer_256, Wipeout_242,

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

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

• BRock_118, BobRoss2024_50, Bromden_13, Cece_187, FlyingTortilla_49, GiJojo_115, GiJojo_172, Kabocha_17, Karimac_252, Magritte_7, Neville_119, Roman_67, Talos_125, Thibault_148, Trax_120, UBSmoodge_51, Weasels2_171,

Summary by start number:

Start 8:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlyingTortilla_49 (DQ), UBSmoodge_51 (DQ),

Start 10:
• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Thibault_148 (J),

Start 11:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_7 (singleton),

Start 12:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kabocha_17 (DQ),

Start 15:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weasels2_171 (CB),

Start 16:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GiJojo_172 (BS),

Start 20:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BobRoss2024_50 (DR),

Start 21:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Cece_187 (GD3),

Start 23:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Roman_67 (ED1),

Start 24:
• Found in 10 of 27 (37.0%) of genes in pham
• Manual Annotations of this start: 8 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CeilingFan_256 (BE2), Enygma_258 (BE2), Gibbi_260 (BE2), JimJam_259 (BE2), KentuckyRacer_258 (BE2), Quaran19_252 (BE2), Rikishi_260 (BE2), Spilled_259 (BE2), TomSawyer_256 (BE2), Wipeout_242 (BE2),

Start 27:
• Found in 12 of 27 (44.4%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 8.3% of time when present
• Phage (with cluster) where this start called: BRock_118 (BS),

Start 31:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bromden_13 (L4),

Start 33:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Neville_119 (DU2), Trax_120 (DU2),

Start 37:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GiJojo_115 (BS), Talos_125 (BS),

Start 42:
• Found in 11 of 27 (40.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Karimac_252 (BE2),

Summary by clusters:

There are 11 clusters represented in this pham: singleton, GD3, CB, J, L4, ED1, BS, BE2, DU2, DR, DQ,

Info for manual annotations of cluster BE2:

•Start number 24 was manually annotated 8 times for cluster BE2.
•Start number 42 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BS:
•Start number 16 was manually annotated 1 time for cluster BS.
•Start number 27 was manually annotated 1 time for cluster BS.
•Start number 37 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CB:
•Start number 15 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster DQ:
•Start number 8 was manually annotated 2 times for cluster DQ.
•Start number 12 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DU2:
•Start number 33 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster ED1:
•Start number 23 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster GD3:
•Start number 21 was manually annotated 1 time for cluster GD3.

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

Info for manual annotations of cluster L4:
•Start number 31 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: BRock_118 Start: 64876, Stop: 65322, Start Num: 27
Candidate Starts for BRock_118:
(Start: 27 @64876 has 1 MA's), (56, 65020), (59, 65038), (60, 65041), (71, 65089), (75, 65104), (77, 65110), (79, 65152), (83, 65203), (99, 65293),

Gene: BobRoss2024_50 Start: 44361, Stop: 43870, Start Num: 20
Candidate Starts for BobRoss2024_50:
(3, 44553), (19, 44373), (20, 44361), (25, 44355), (34, 44304), (63, 44163), (64, 44145), (71, 44094), (77, 44073), (81, 43995), (91, 43917),

Gene: Bromden_13 Start: 8696, Stop: 9157, Start Num: 31
Candidate Starts for Bromden_13:
(26, 8663), (Start: 31 @8696 has 1 MA's), (35, 8705), (71, 8900), (77, 8921), (87, 9056), (89, 9068), (90, 9071), (94, 9092), (95, 9095), (98, 9104),

Gene: Cece_187 Start: 114127, Stop: 113666, Start Num: 21
Candidate Starts for Cece_187:

(7, 114241), (9, 114238), (17, 114148), (18, 114145), (Start: 21 @114127 has 1 MA's), (30, 114082), (43, 114043), (44, 114034), (58, 113941), (66, 113923), (69, 113908), (73, 113875), (77, 113860),

Gene: CeilingFan_256 Start: 116457, Stop: 116897, Start Num: 24
Candidate Starts for CeilingFan_256:
(Start: 24 @116457 has 8 MA's), (Start: 27 @116466 has 1 MA's), (Start: 42 @116526 has 1 MA's), (51, 116577), (71, 116658), (77, 116679), (88, 116817), (96, 116856),

Gene: Enygma_258 Start: 118257, Stop: 118697, Start Num: 24
Candidate Starts for Enygma_258:
(Start: 24 @118257 has 8 MA's), (Start: 27 @118266 has 1 MA's), (Start: 42 @118326 has 1 MA's), (51, 118377), (71, 118458), (77, 118479), (88, 118617), (96, 118656),

Gene: FlyingTortilla_49 Start: 40285, Stop: 40998, Start Num: 8
Candidate Starts for FlyingTortilla_49:
(Start: 8 @40285 has 2 MA's), (Start: 10 @40294 has 1 MA's), (13, 40336), (19, 40378), (36, 40453), (49, 40504), (53, 40546), (61, 40579), (65, 40612), (76, 40672), (77, 40675), (78, 40699), (81, 40753), (88, 40813), (101, 40930), (102, 40945), (103, 40954),

Gene: GiJojo_172 Start: 92929, Stop: 93441, Start Num: 16
Candidate Starts for GiJojo_172:
(Start: 16 @92929 has 1 MA's), (Start: 23 @92962 has 1 MA's), (29, 92998), (32, 93010), (38, 93028), (44, 93052), (47, 93070), (68, 93199), (71, 93232), (76, 93250), (77, 93253), (78, 93277), (83, 93346),

Gene: GiJojo_115 Start: 67939, Stop: 68364, Start Num: 37
Candidate Starts for GiJojo_115:
(Start: 37 @67939 has 1 MA's), (74, 68146), (75, 68149), (76, 68152), (77, 68155), (78, 68179), (79, 68197), (80, 68215), (82, 68242), (91, 68311),

Gene: Gibbi_260 Start: 115950, Stop: 116390, Start Num: 24
Candidate Starts for Gibbi_260:
(Start: 24 @115950 has 8 MA's), (Start: 27 @115959 has 1 MA's), (Start: 42 @116019 has 1 MA's), (51, 116070), (71, 116151), (77, 116172), (88, 116310), (96, 116349),

Gene: JimJam_259 Start: 117386, Stop: 117826, Start Num: 24
Candidate Starts for JimJam_259:
(Start: 24 @117386 has 8 MA's), (Start: 27 @117395 has 1 MA's), (Start: 42 @117455 has 1 MA's), (51, 117506), (71, 117587), (77, 117608), (88, 117746), (96, 117785),

Gene: Kabocha_17 Start: 7748, Stop: 8341, Start Num: 12
Candidate Starts for Kabocha_17:
(3, 7634), (4, 7682), (6, 7703), (Start: 12 @7748 has 1 MA's), (46, 7934), (54, 7991), (71, 8090), (72, 8093), (76, 8108), (77, 8111), (78, 8135), (80, 8171), (81, 8189), (82, 8198), (84, 8210), (87, 8246), (88, 8249),

Gene: Karimac_252 Start: 115850, Stop: 116224, Start Num: 42
Candidate Starts for Karimac_252:
(Start: 27 @115790 has 1 MA's), (Start: 42 @115850 has 1 MA's), (51, 115901), (71, 115982), (77, 116003), (96, 116180),

Gene: KentuckyRacer_258 Start: 117301, Stop: 117741, Start Num: 24
Candidate Starts for KentuckyRacer_258:

(Start: 24 @117301 has 8 MA's), (Start: 27 @117310 has 1 MA's), (Start: 42 @117370 has 1 MA's), (51, 117421), (71, 117502), (77, 117523), (88, 117661), (96, 117700),

Gene: Magritte_7 Start: 4005, Stop: 4622, Start Num: 11
Candidate Starts for Magritte_7:
(1, 3567), (2, 3870), (Start: 11 @4005 has 1 MA's), (14, 4038), (28, 4113), (32, 4140), (41, 4164), (47, 4200), (64, 4308), (97, 4560),

Gene: Neville_119 Start: 67317, Stop: 67757, Start Num: 33
Candidate Starts for Neville_119:
(Start: 33 @67317 has 2 MA's), (57, 67440), (62, 67455), (77, 67554), (86, 67680), (93, 67719), (96, 67731),

Gene: Quaran19_252 Start: 115643, Stop: 116083, Start Num: 24
Candidate Starts for Quaran19_252:
(Start: 24 @115643 has 8 MA's), (Start: 27 @115652 has 1 MA's), (Start: 42 @115712 has 1 MA's), (51, 115763), (71, 115844), (77, 115865), (88, 116003), (96, 116042),

Gene: Rikishi_260 Start: 115924, Stop: 116364, Start Num: 24
Candidate Starts for Rikishi_260:
(Start: 24 @115924 has 8 MA's), (Start: 27 @115933 has 1 MA's), (Start: 42 @115993 has 1 MA's), (51, 116044), (71, 116125), (77, 116146), (88, 116284), (96, 116323),

Gene: Roman_67 Start: 39014, Stop: 38559, Start Num: 23
Candidate Starts for Roman_67:
(Start: 23 @39014 has 1 MA's), (32, 38966), (45, 38924), (50, 38903), (67, 38801), (71, 38771), (79, 38708),

Gene: Spilled_259 Start: 116318, Stop: 116758, Start Num: 24
Candidate Starts for Spilled_259:
(Start: 24 @116318 has 8 MA's), (Start: 27 @116327 has 1 MA's), (Start: 42 @116387 has 1 MA's), (51, 116438), (71, 116519), (77, 116540), (88, 116678), (96, 116717),

Gene: Talos_125 Start: 67102, Stop: 67527, Start Num: 37
Candidate Starts for Talos_125:
(Start: 37 @67102 has 1 MA's), (48, 67147), (55, 67201), (70, 67294), (75, 67312), (76, 67315), (77, 67318), (78, 67342), (79, 67360), (82, 67405), (91, 67474), (92, 67477), (100, 67516),

Gene: Thibault_148 Start: 84205, Stop: 84771, Start Num: 10
Candidate Starts for Thibault_148:
(5, 84166), (Start: 10 @84205 has 1 MA's), (40, 84382), (67, 84535), (77, 84592), (80, 84652), (85, 84694), (87, 84727), (91, 84748),

Gene: TomSawyer_256 Start: 117629, Stop: 118069, Start Num: 24
Candidate Starts for TomSawyer_256:
(Start: 24 @117629 has 8 MA's), (Start: 27 @117638 has 1 MA's), (Start: 42 @117698 has 1 MA's), (51, 117749), (71, 117830), (77, 117851), (88, 117989), (96, 118028),

Gene: Trax_120 Start: 68137, Stop: 68577, Start Num: 33
Candidate Starts for Trax_120:
(Start: 33 @68137 has 2 MA's), (57, 68260), (62, 68275), (77, 68374), (86, 68500), (93, 68539), (96, 68551),

Gene: UBSmoodge_51 Start: 40051, Stop: 40764, Start Num: 8
Candidate Starts for UBSmoodge_51:
(Start: 8 @40051 has 2 MA's), (Start: 10 @40060 has 1 MA's), (13, 40102), (19, 40144), (36, 40219), (49, 40270), (53, 40312), (55, 40321), (61, 40345), (65, 40378), (76, 40438), (77, 40441), (78, 40465), (81, 40519), (88, 40579), (101, 40696), (102, 40711), (103, 40720),

Gene: Weasels2_171 Start: 93400, Stop: 93933, Start Num: 15
Candidate Starts for Weasels2_171:
(Start: 15 @93400 has 1 MA's), (22, 93454), (39, 93520), (52, 93592), (65, 93670), (72, 93715), (77, 93733), (80, 93793),

Gene: Wipeout_242 Start: 116581, Stop: 117021, Start Num: 24
Candidate Starts for Wipeout_242:
(Start: 24 @116581 has 8 MA's), (Start: 27 @116590 has 1 MA's), (Start: 42 @116650 has 1 MA's), (51, 116701), (71, 116782), (77, 116803), (88, 116941), (96, 116980),