Figure 1

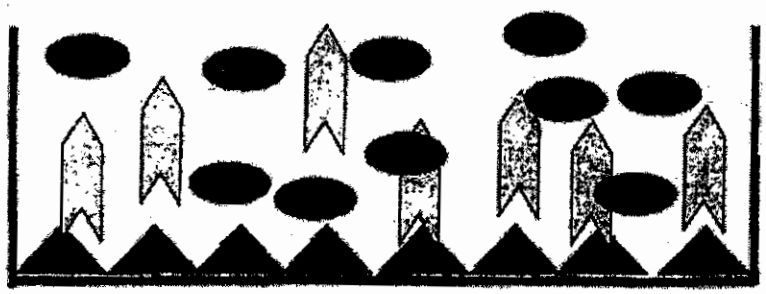
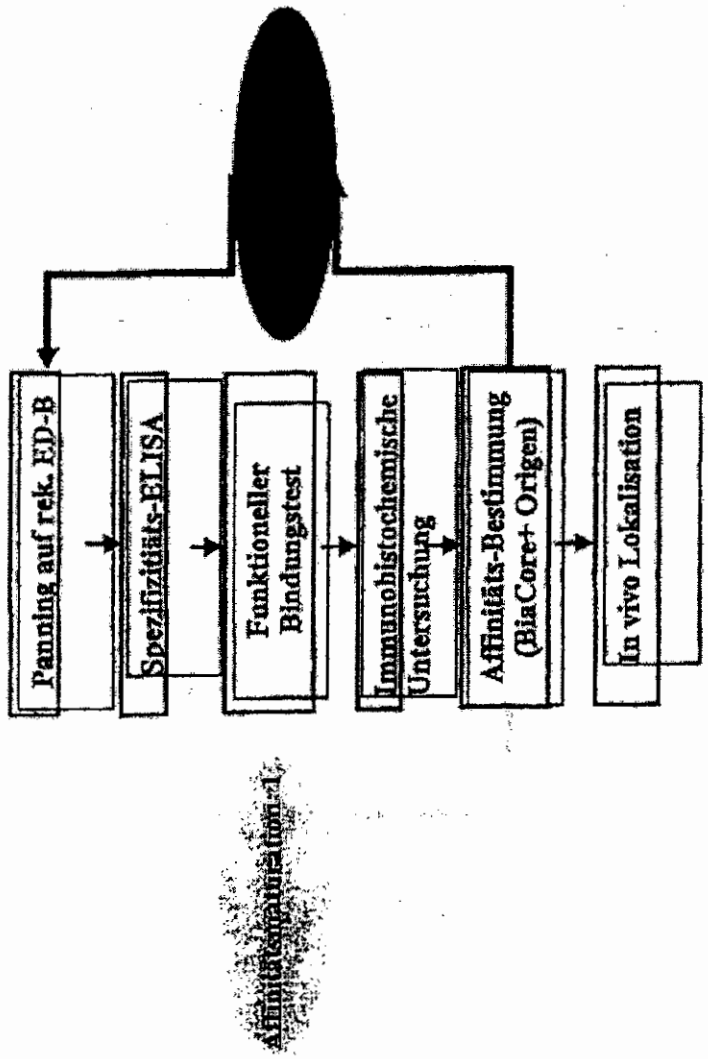


Figure 2



[Key to Figure 2:]

Affinitätsmaturation 1 = Affinity Maturation 1
Panning auf rek. ED-B = Panning on Rec. ED-B
Spezifizitäts-ELISA = Specificity-ELISA
Funktioneller Bindungstest = Functional Binding Test
Immunohistochemische Untersuchung = Immunohistochemical Study
Affinitäts-Bestimmung = Determination of Affinity
In vivo Lokalisation = In-Vivo Localization

Figure 3

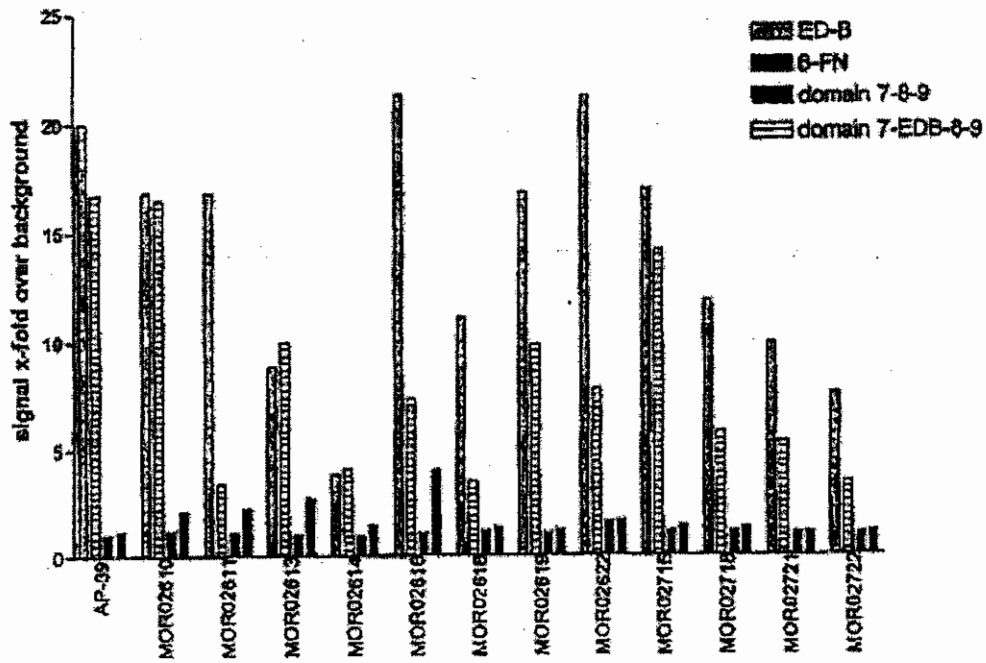
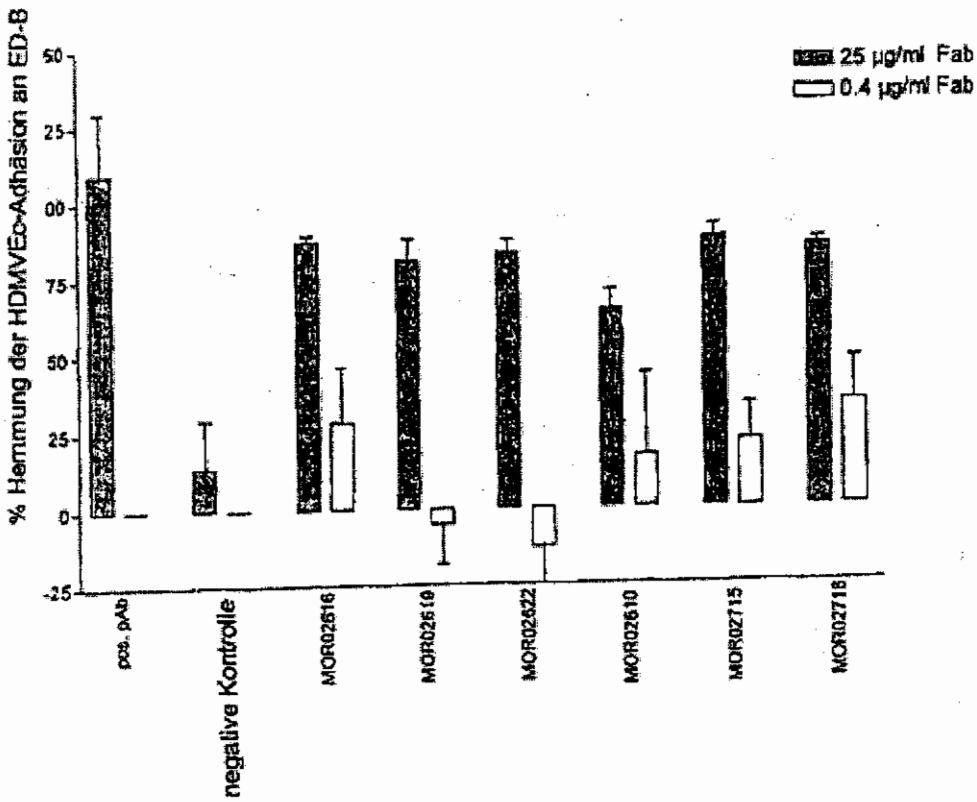

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domain 7-EDB-8-9
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15
10
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MOR02613
MOR02614
MOR02616
MOR02618
MOR02619
MOR02622
MOR02715
MOR02718
MOR02721
MOR02722

Figure 4



[Key to Figure 4:]

% Hemmung der HDMVEc-Adhäsion an ED-B = % Inhibition of the HDMVEc Adhesion to ED-B

negative Kontrolle = Negative control

Figure 5A



Figure 5B

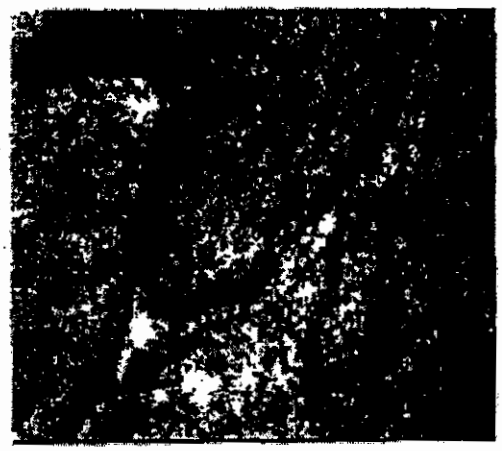


Figure 5C



Figure 5D

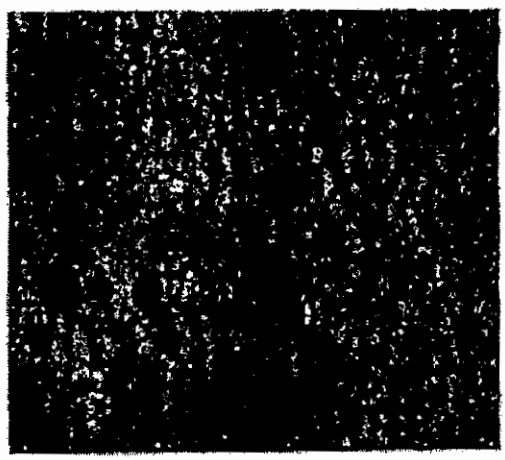


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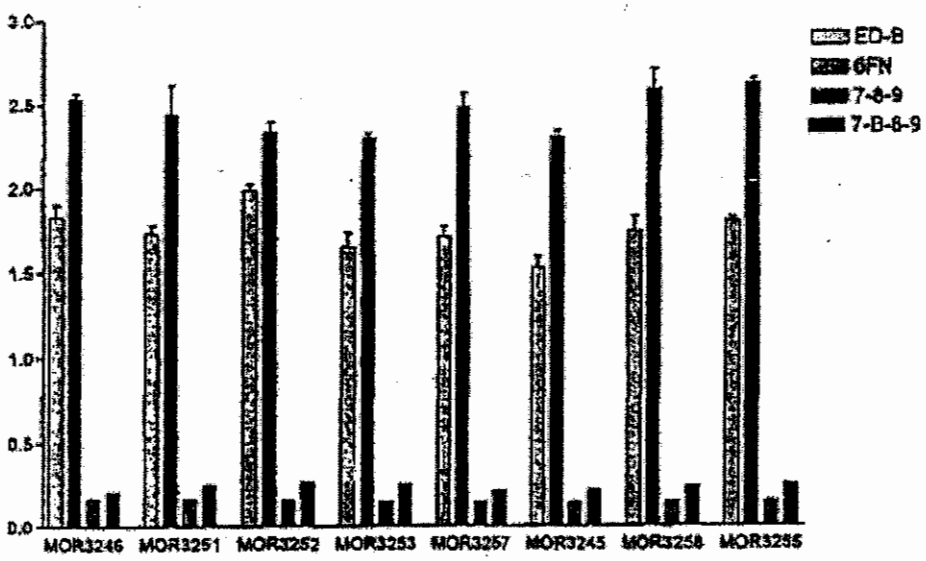
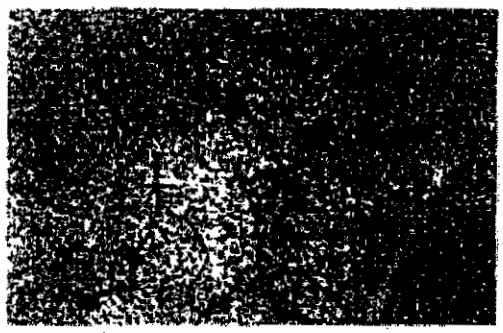

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Figure 7



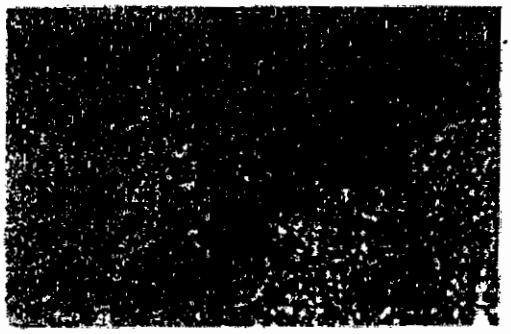


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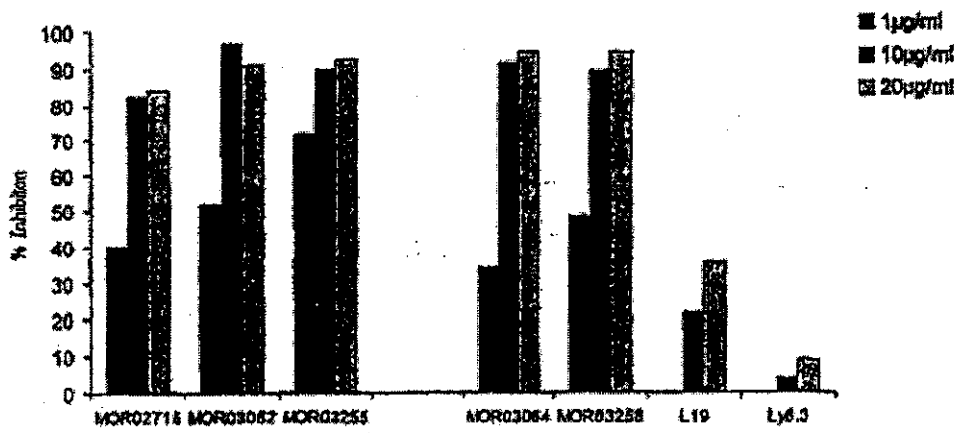

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20µg/ml
% Inhibition
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90
80
70
60
50
40
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0
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L19
Ly6.3

Figure 9

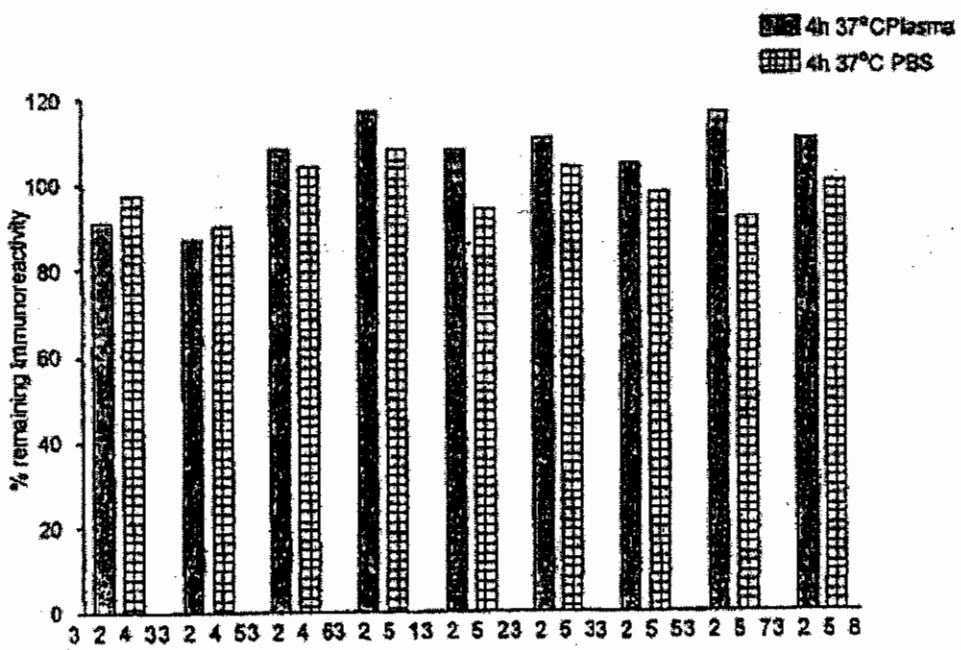
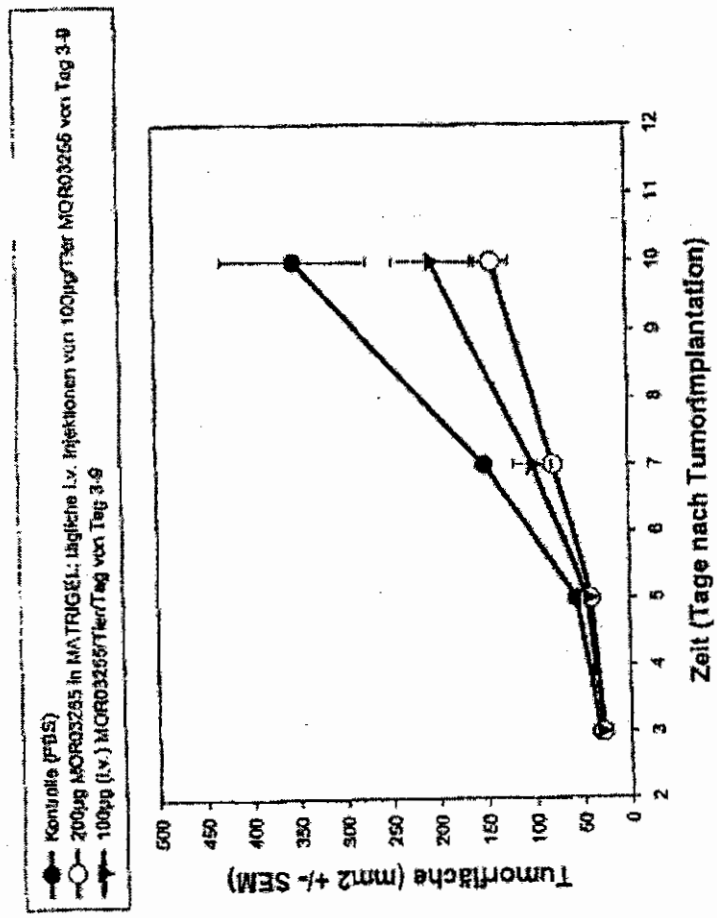

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4h 37°C PBS
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Figure 10



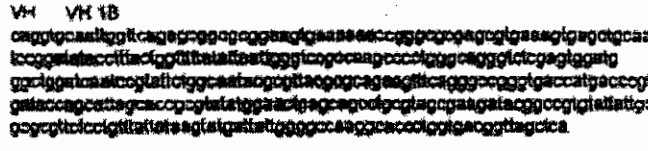
[Key to Figure 10:]

Kontrolle = Control
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100µg (i.v.)MOR03255/Tier/Tag von Tag 3-9 = 100 µg (I.V.) of MOR03255/Animal/Day of Days 3-9
Tumorfläche = Tumor Surface Area
Zeit (Tage nach Tumorimplantation) = Time (Days After Tumor Implant)

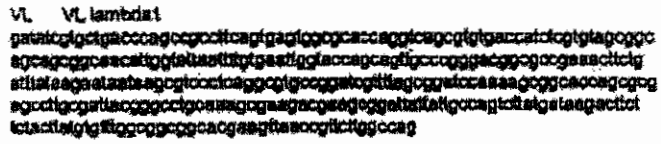
Figure 11

Parent Clone

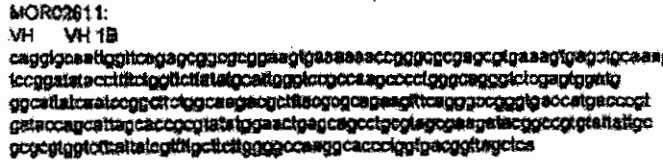
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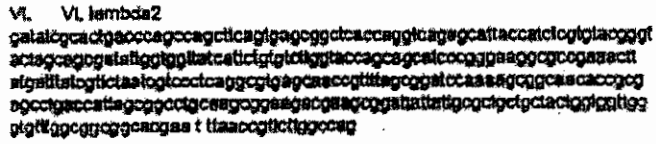
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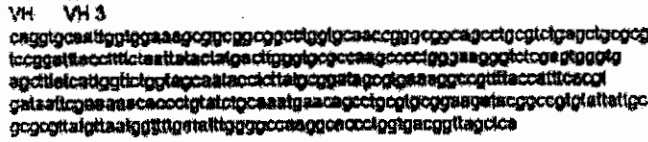


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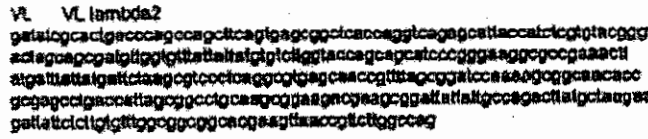


Note: In VL mutation at nt 309

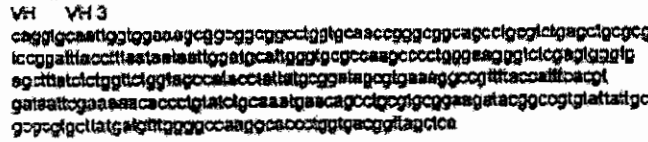
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VL VL lambda2



MOR02614:
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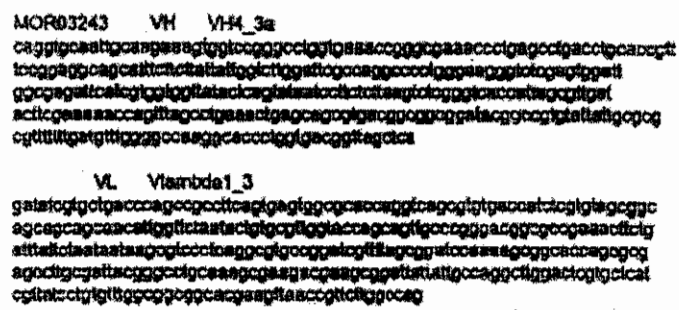
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gataattccgaaaacaccctgtatctgcaaatgaacagcctgcgtgcggaagataccgccgtgtattattgc
gcgcgtaataagggtgcttttgatgttgggcaaggcaccctggtcaccgttagctca

VL:
MOR03064:
Vlambda2_3
gatatcgcactgacccagccagcttcagtgagcggctcaccaggtcagagcattaccatctcgtgtaccggt
actagcagcgatggtggtggttataatactgtgtcttggtaccagcagcatcccgggaaggcgccgaaactt
atgattattatgttcataagcgtccctcaggcgtgagcaaccgtttagcggatccaaaagcggcaacacc
gcgagccttgaccattagcggccttcaagcggaagacgaagcggattattattgccagtctgggatcttct
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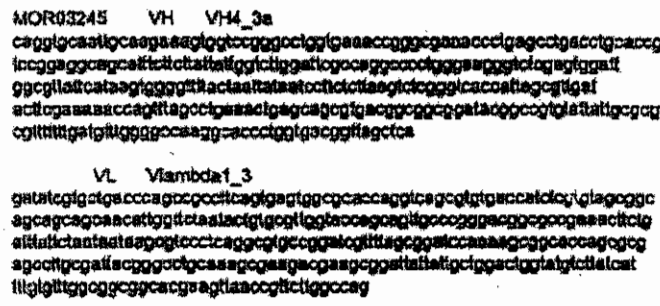
MOR03062:
Vlambda2_3
gatatcgcactgacccagccagcttcagtgagcggctcaccaggtcagagcattaccatctcgtgtaccgggt
actagcagcgatggtggtggttataatactgtgtcttggtaccagcagcatcccgggaaggcgccgaaactt
atgattattatgttcataagcgtccctcaggcgtgagcaaccgtttagcggatccaaagcggcaacacc
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2. Maturation: HCDR2

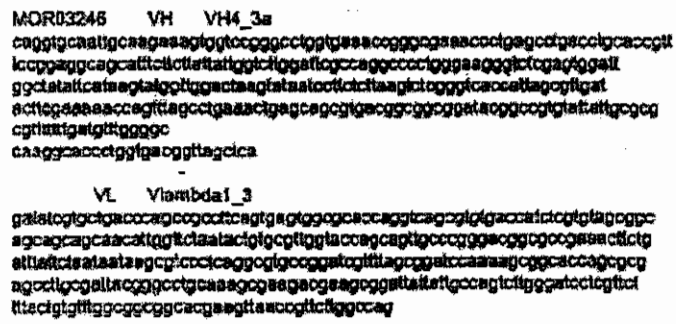
Derivatives of MOR03055:



Derivatives of MOR03069:



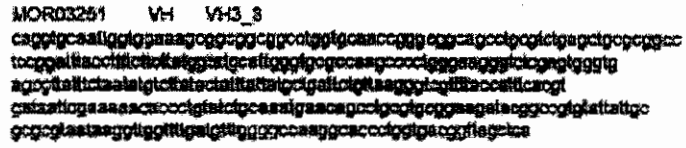
Derivatives of MOR03075:



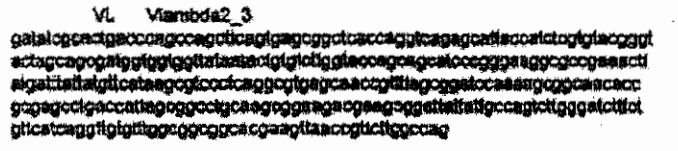
Note: VH4_3a sequences were back-mutated in FR2 of HuCAL GOLD to Fab2 with use of a Fab2 maturation cassette

Derivatives of MOR03062:

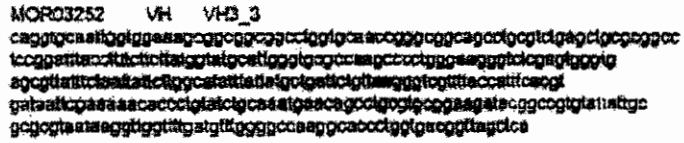
MOR03251 VH VH3_3



VL Vlambda2_3

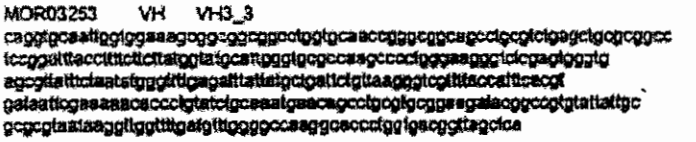


MOR03252 VH VH3_3



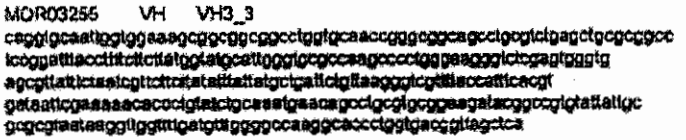
VL Vlambda2_3 such as 3251

MOR03253 VH VH3_3



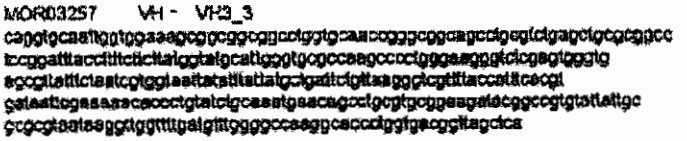
VL Vlambda2_3 such as 3251

MOR03255 VH VH3_3



VL Vlambda2_3 such as 3251

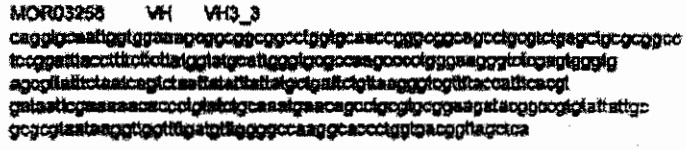
MOR03257 VH VH3_3



VL Vlambda2_3 such as 3251

Derivatives of MOR03075:

MOR03258 VH VH3_3



VL Vlambda2_3

